

APPENDICES

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Appendix A

PACKAGING LINE DATA

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A.1. DIRECT LABOR (DLR)

$$\text{DLR} = (\text{HE} * \text{PT} * \text{WR})$$

$$\text{WR} = \$20.00$$

Production Day (DMU)	Number of Hourly Employees		Total Production Time	Direct Labor	
	HE (<i>observed</i>)	HE (<i>upper bound</i>)	PT (Hours)	DLR (<i>observed</i>)	DLR (<i>upper bound</i>)
1	4.00	4.50	9.86	788.80	887.40
2	5.50	6.00	12.25	1347.50	1470.00
3	3.00	3.50	11.50	690.00	805.00
4	5.00	5.50	12.25	1225.00	1347.50
5	5.50	6.00	10.83	1191.30	1299.60
6	3.50	4.00	13.08	915.60	1046.40
7	5.00	5.50	14.42	1442.00	1586.20
8	3.50	5.50	11.25	787.50	1237.50
9	3.50	4.00	12.00	840.00	960.00
10	5.00	5.50	13.16	1316.00	1447.60
11	4.00	4.50	12.66	1012.80	1139.40
12	6.00	6.50	12.66	1519.20	1645.80
13	4.00	4.50	12.25	980.00	1102.50
14	6.00	6.50	15.07	1808.40	1959.10
15	7.00	7.50	13.16	1842.40	1974.00
16	8.00	8.50	13.16	2105.60	2237.20
17	6.50	7.00	12.91	1678.30	1807.40
18	6.00	6.50	12.83	1539.60	1667.90
19	3.00	3.50	6.58	394.80	460.60
20	7.50	8.00	11.83	1774.50	1892.80
21	6.00	6.50	14.41	1729.20	1873.30
22	6.00	6.50	14.17	1700.40	1842.10
23	4.50	5.00	12.33	1109.70	1233.00
24	7.50	8.00	11.41	1711.50	1825.60
25	5.00	5.50	12.49	1249.00	1373.90
26	5.00	5.50	12.16	1216.00	1337.60
27	5.00	5.50	12.66	1266.00	1392.60
28	6.00	6.50	11.66	1399.20	1515.80
29	6.00	6.50	12.08	1449.60	1570.40
30	6.50	7.00	12.08	1570.40	1691.20
31	6.00	6.50	12.91	1549.20	1678.30
32	5.00	5.50	12.24	1224.00	1346.40
33	6.00	6.50	11.49	1378.80	1493.70
34	6.50	7.00	12.49	1623.70	1748.60
35	7.00	7.50	13.16	1842.40	1974.00
36	5.50	6.00	12.83	1411.30	1539.60
37	6.00	6.50	12.74	1528.80	1656.20
38	6.00	6.50	14.66	1759.20	1905.80
39	6.50	7.00	13.16	1710.80	1842.40
40	7.00	7.50	12.49	1748.60	1873.50
41	7.50	8.00	13.16	1974.00	2105.60
42	7.00	7.50	13.16	1842.40	1974.00
43	8.00	8.50	14.33	2292.80	2436.10
44	8.50	9.00	16.99	2888.30	3058.20
45	8.00	8.50	14.41	2305.60	2449.70
46	10.50	11.00	13.91	2921.10	3060.20
47	4.00	4.50	10.67	853.60	960.30
48	4.50	5.00	10.29	926.10	1029.00

A.2. REWORK (RWK)

$$\text{RWK} = \text{PMIS} + \text{PMUL}$$

Production Day (DMU)	Preprint Misses		Preprint Multiples	Rework	
	PMIS (<i>observed</i>)	PMIS (<i>upper bound</i>)	PMUL	RWK (<i>observed</i>)	RWK (<i>upper bound</i>)
1	325	975	176	501	1151
2	2222	6666	3357	5579	10023
3	4522	13566	1284	5806	14850
4	3067	9201	2887	5954	12088
5	1997	5991	2496	4493	8487
6	1123	3369	526	1649	3895
7	3485	10455	3570	7055	14025
8	107	321	2602	2709	2923
9	756	2268	803	1559	3071
10	2589	7767	2293	4882	10060
11	1869	5607	1405	3274	7012
12	2882	8646	3598	6480	12244
13	1921	5763	2501	4422	8264
14	6296	18888	10962	17258	29850
15	7563	22689	8380	15943	31069
16	5051	15153	8477	13528	23630
17	3893	11679	4659	8552	16338
18	4019	12057	4717	8736	16774
19	1762	5286	1538	3300	6824
20	5028	15084	7131	12159	22215
21	4784	14352	4513	9297	18865
22	5754	17262	7765	13519	25027
23	1535	4605	1614	3149	6219
24	7304	21912	6658	13962	28570
25	1591	4773	3476	5067	8249
26	2169	6507	2743	4912	9250
27	4749	14247	4542	9291	18789
28	4925	14775	8635	13560	23410
29	2794	8382	3797	6591	12179
30	6050	18150	7363	13413	25513
31	5408	16224	5052	10460	21276
32	3781	11343	6843	10624	18186
33	4682	14046	4212	8894	18258
34	4160	12480	5241	9401	17721
35	13479	40437	3010	16489	43447
36	6244	18732	8726	14970	27458
37	7303	21909	2877	10180	24786
38	5319	15957	10448	15767	26405
39	4538	13614	4375	8913	17989
40	4685	14055	3052	7737	17107
41	7673	23019	11602	19275	34621
42	7381	22143	5731	13112	27874
43	5898	17694	7495	13393	25189
44	3389	10167	10065	13454	20232
45	3933	11799	9282	13215	21081
46	4886	14658	7883	12769	22541
47	969	2907	8370	9339	11277
48	967	2901	2615	3582	5516

A.3. RAW MATERIAL (RML)

A.3.a: REJECTS (REJ)

$$\text{REJ} = (N_{\text{MUL}} \times \text{MUL}) + \text{UON}$$

$N_{\text{MUL}} = 2$ (*observed value*) and $N_{\text{MUL}} = 3$ (*upper bound*)

Production Day (DMU)	NNSS Multiples		Unopened NNSS	Rejected NNSS	
	NMUL (=2) x MUL (<i>observed</i>)	NMUL (=3) x MUL (<i>upper bound</i>)	UON	REJ (<i>observed</i>)	REJ (<i>upper bound</i>)
1	1080	1620	2935	4015	4555
2	2082	3123	4311	6393	7434
3	1712	2568	4291	6003	6859
4	3174	4761	4168	7342	8929
5	1002	1503	6109	7111	7612
6	444	666	5352	5796	6018
7	266	399	5163	5429	5562
8	376	564	3433	3809	3997
9	1174	1761	4133	5307	5894
10	1154	1731	7485	8639	9216
11	664	996	9147	9811	10143
12	1196	1794	5093	6289	6887
13	532	798	8258	8790	9056
14	1340	2010	4896	6236	6906
15	1024	1536	3017	4041	4553
16	144	216	3650	3794	3866
17	452	678	5462	5914	6140
18	208	312	4462	4670	4774
19	448	672	3170	3618	3842
20	786	1179	12897	13683	14076
21	1772	2658	11820	13592	14478
22	1834	2751	16494	18328	19245
23	1440	2160	4733	6173	6893
24	418	627	2578	2996	3205
25	1566	2349	1146	2712	3495
26	2468	3702	1440	3908	5142
27	692	1038	1158	1850	2196
28	934	1401	7820	8754	9221
29	882	1323	1153	2035	2476
30	694	1041	1844	2538	2885
31	1142	1713	1221	2363	2934
32	2136	3204	1436	3572	4640
33	1852	2778	1402	3254	4180
34	1116	1674	1324	2440	2998
35	866	1299	912	1778	2211
36	1042	1563	1722	2764	3285
37	752	1128	1559	2311	2687
38	748	1122	5084	5832	6206
39	844	1266	3328	4172	4594
40	594	891	4986	5580	5877
41	812	1218	4260	5072	5478
42	1588	2382	4864	6452	7246
43	1500	2250	5352	6852	7602
44	1792	2688	7572	9364	10260
45	1208	1812	6672	7880	8484
46	2254	3381	3783	6037	7164
47	322	483	1914	2236	2397
48	100	150	2873	2973	3023

A.3.b: SCRAP (SCP)

$$\text{SCP} = F_{\text{REJ}} \times \text{REJ}$$

$$F_{\text{REJ}} = 30\% \text{ (observed value)}$$

$$F_{\text{REJ}} = 50\% \text{ (upper bound)}$$

Production Day (DMU)	Rejected NNSS		Scrapped NNSS	
	REJ (observed)	REJ (upper bound)	SCP (observed)	SCP (upper bound)
1	4015	4555	1205	2278
2	6393	7434	1918	3717
3	6003	6859	1801	3430
4	7342	8929	2203	4465
5	7111	7612	2133	3806
6	5796	6018	1739	3009
7	5429	5562	1629	2781
8	3809	3997	1143	1999
9	5307	5894	1592	2947
10	8639	9216	2592	4608
11	9811	10143	2943	5072
12	6289	6887	1887	3444
13	8790	9056	2637	4528
14	6236	6906	1871	3453
15	4041	4553	1212	2277
16	3794	3866	1138	1933
17	5914	6140	1774	3070
18	4670	4774	1401	2387
19	3618	3842	1085	1921
20	13683	14076	4105	7038
21	13592	14478	4078	7239
22	18328	19245	5498	9623
23	6173	6893	1852	3447
24	2996	3205	899	1603
25	2712	3495	814	1748
26	3908	5142	1172	2571
27	1850	2196	555	1098
28	8754	9221	2626	4611
29	2035	2476	611	1238
30	2538	2885	761	1443
31	2363	2934	709	1467
32	3572	4640	1072	2320
33	3254	4180	976	2090
34	2440	2998	732	1499
35	1778	2211	533	1106
36	2764	3285	829	1643
37	2311	2687	693	1344
38	5832	6206	1750	3103
39	4172	4594	1252	2297
40	5580	5877	1674	2939
41	5072	5478	1522	2739
42	6452	7246	1936	3623
43	6852	7602	2056	3801
44	9364	10260	2809	5130
45	7880	8484	2364	4242
46	6037	7164	1811	3582
47	2236	2397	671	1199
48	2973	3023	892	1512

A.3.c: TRASH (TRA)

$$\text{TRA} = F_{\text{PMOT}} \times \text{PMOT}$$

$F_{\text{PMOT}} = 3\%$ (*observed value*)

$F_{\text{PMOT}} = 5\%$ (*upper bound*)

	Preprint Insertion Machine Output	Trashed NNSS	
Production Day (DMU)	PMOT	TRA (<i>observed</i>)	TRA (<i>upper bound</i>)
1	14329	430	716
2	128199	3846	6410
3	140573	4217	7029
4	112678	3380	5634
5	139981	4199	6999
6	187883	5636	9394
7	148474	4454	7424
8	115228	3457	5761
9	154548	4636	7727
10	155799	4674	7790
11	154615	4638	7731
12	153955	4619	7698
13	152449	4573	7622
14	136428	4093	6821
15	114124	3424	5706
16	116061	3482	5803
17	110287	3309	5514
18	112712	3381	5636
19	80532	2416	4027
20	146440	4393	7322
21	173722	5212	8686
22	137288	4119	6864
23	163062	4892	8153
24	129618	3889	6481
25	172643	5179	8632
26	167829	5035	8391
27	165171	4955	8259
28	118580	3557	5929
29	149101	4473	7455
30	139845	4195	6992
31	151073	4532	7554
32	152240	4567	7612
33	129946	3898	6497
34	144577	4337	7229
35	120435	3613	6022
36	152890	4587	7645
37	153724	4612	7686
38	128779	3863	6439
39	133375	4001	6669
40	144287	4329	7214
41	139769	4193	6988
42	153799	4614	7690
43	130443	3913	6522
44	115396	3462	5770
45	125113	3753	6256
46	110201	3306	5510
47	174498	5235	8725
48	183429	5503	9171

$$\text{RML} = k_{\text{RML}} \times (\text{TRA} + \text{SCP})$$

Production Day (DMU)	k_{RML}	Trashed NNS		Scrapped NNS		Raw Material	
		TRA (observed)	TRA (upper bound)	SCP (observed)	SCP (upper bound)	RML (observed)	RML (upper bound)
1	0.49	430	716	1205	2278	801	1467
2	1.10	3846	6410	1918	3717	6340	11140
3	0.81	4217	7029	1801	3430	4875	8471
4	1.10	3380	5634	2203	4465	6141	11108
5	0.76	4199	6999	2133	3806	4813	8212
6	0.62	5636	9394	1739	3009	4573	7690
7	1.11	4454	7424	1629	2781	6752	11327
8	0.63	3457	5761	1143	1999	2898	4889
9	0.62	4636	7727	1592	2947	3862	6618
10	0.80	4674	7790	2592	4608	5813	9918
11	0.74	4638	7731	2943	5072	5610	9474
12	0.76	4619	7698	1887	3444	4944	8467
13	0.71	4573	7622	2637	4528	5119	8627
14	1.12	4093	6821	1871	3453	6679	11507
15	1.22	3424	5706	1212	2277	5656	9739
16	1.28	3482	5803	1138	1933	5914	9902
17	1.23	3309	5514	1774	3070	6252	10559
18	1.17	3381	5636	1401	2387	5595	9386
19	1.03	2416	4027	1085	1921	3606	6126
20	1.05	4393	7322	4105	7038	8923	15078
21	1.24	5212	8686	4078	7239	11519	19747
22	1.31	4119	6864	5498	9623	12598	21598
23	0.80	4892	8153	1852	3447	5395	9280
24	1.35	3889	6481	899	1603	6463	10913
25	0.80	5179	8632	814	1748	4794	8304
26	0.61	5035	8391	1172	2571	3786	6687
27	1.05	4955	8259	555	1098	5786	9824
28	1.12	3557	5929	2626	4611	6926	11804
29	1.08	4473	7455	611	1238	5490	9388
30	1.45	4195	6992	761	1443	7187	12230
31	1.21	4532	7554	709	1467	6342	10915
32	0.75	4567	7612	1072	2320	4229	7449
33	1.17	3898	6497	976	2090	5703	10047
34	1.30	4337	7229	732	1499	6590	11346
35	1.48	3613	6022	533	1106	6137	10548
36	1.09	4587	7645	829	1643	5903	10123
37	1.35	4612	7686	693	1344	7162	12190
38	1.29	3863	6439	1750	3103	7241	12309
39	1.47	4001	6669	1252	2297	7722	13180
40	1.38	4329	7214	1674	2939	8284	14011
41	1.62	4193	6988	1522	2739	9258	15758
42	1.62	4614	7690	1936	3623	10610	18327
43	1.50	3913	6522	2056	3801	8953	15485
44	1.46	3462	5770	2809	5130	9156	15914
45	1.40	3753	6256	2364	4242	8564	14697
46	1.32	3306	5510	1811	3582	6755	12002
47	0.61	5235	8725	671	1199	3603	6053
48	0.80	5503	9171	892	1512	5116	8546

A.4. PACKAGES (PCF)

A.4.a: PACKAGE PRODUCTION

CP = PMOT (*observed value*)

CP = PMOT - $\Sigma|PMOT_z - PLOT_z|$ (*lower bound*)

Production Day (DMU)	Preprint Insertion Machine Output	PMOT vs. PLOT	Package Production	
	PMOT	$\Sigma PMOT_z - PLOT_z $	CP (<i>lower bound</i>)	CP (<i>observed</i>)
1	143239	64	143175	143239
2	128199	639	127560	128199
3	140573	31	140542	140573
4	112678	1156	111522	112678
5	139981	1121	138860	139981
6	187883	18425	169458	187883
7	148474	1470	147004	148474
8	115228	5590	109638	115228
9	154548	5207	149341	154548
10	155799	32185	123614	155799
11	154615	146	154469	154615
12	153955	929	153026	153955
13	152449	20767	131682	152449
14	136428	4826	131602	136428
15	114124	820	113304	114124
16	116061	713	115348	116061
17	110287	4831	105456	110287
18	112712	5204	107508	112712
19	80532	331	80201	80532
20	146440	1545	144895	146440
21	173722	2244	171478	173722
22	137288	6024	131264	137288
23	163062	6624	156438	163062
24	129618	576	129042	129618
25	172643	6298	166345	172643
26	167829	1136	166693	167829
27	165171	773	164398	165171
28	118580	188	118392	118580
29	149101	670	148431	149101
30	139845	2487	137358	139845
31	151073	224	150849	151073
32	152240	4447	147793	152240
33	129946	585	129361	129946
34	144577	1727	142850	144577
35	120435	66	120369	120435
36	152890	397	152493	152890
37	153724	146	153578	153724
38	128779	239	128540	128779
39	133375	276	133099	133375
40	144287	172	144115	144287
41	139769	91	139678	139769
42	153799	161	153638	153799
43	130443	117	130326	130443
44	115396	52	115344	115396
45	125113	50	125063	125113
46	110201	1139	109062	110201
47	174498	11308	163190	174498
48	183429	2976	180453	183429

A.4.b: INCOMPLETE PACKAGES

$$IP = PST / NoPT \text{ (observed)}$$

$$IP = PST \text{ (upper bound)}$$

Production Day (DMU)	Preprint Shortages	Preprint Types	Incomplete Packages	
	PST	Number of Types (NoPT)	IP (observed)	IP (upper bound)
1	3782	7	540	3782
2	7038	21	335	7038
3	2456	7	351	2456
4	13837	22	629	13837
5	10969	16	686	10969
6	2030	9	226	2030
7	6723	21	320	6723
8	650	12	54	650
9	0	9	0	0
10	521	10	52	521
11	0	15	0	0
12	10802	12	900	10802
13	0	8	0	0
14	18887	19	994	18887
15	9145	28	327	9145
16	32301	28	1154	32301
17	21532	32	673	21532
18	15263	25	611	15263
19	0	12	0	0
20	2496	21	119	2496
21	78070	20	3904	78070
22	46309	29	1597	46309
23	2766	10	277	2766
24	4096	29	141	4096
25	6675	13	513	6675
26	3741	8	468	3741
27	901	27	33	901
28	9365	26	360	9365
29	2164	17	127	2164
30	1298	33	39	1298
31	114	26	4	114
32	0	12	0	0
33	30547	23	1328	30547
34	9537	29	329	9537
35	0	35	0	0
36	2775	20	139	2775
37	10261	33	311	10261
38	2960	33	90	2960
39	3074	38	81	3074
40	5169	32	162	5169
41	29060	32	908	29060
42	5547	34	163	5547
43	0	34	0	0
44	0	36	0	0
45	0	25	0	0
46	0	29	0	0
47	0	10	0	0
48	0	11	0	0

A.4.c: PACKAGES

$$PP^{ob} = CP^{ob} - IP^{ob} \text{ (observed)}$$

$$PP^{lb} = CP^{lb} - IP^{ub} \text{ (lower bound)}$$

Production Day (DMU)	Package Production		Incomplete Packages		Packages	
	CP (lower bound)	CP (observed)	IP (observed)	IP (upper bound)	PP (lower bound)	PP (observed)
1	143175	143239	540	3782	139393	142699
2	127560	128199	335	7038	120522	127864
3	140542	140573	351	2456	138086	140222
4	111522	112678	629	13837	97685	112049
5	138860	139981	686	10969	127891	139295
6	169458	187883	226	2030	167428	187657
7	147004	148474	320	6723	140281	148154
8	109638	115228	54	650	108988	115174
9	149341	154548	0	0	149341	154548
10	123614	155799	52	521	123093	155747
11	154469	154615	0	0	154469	154615
12	153026	153955	900	10802	142224	153055
13	131682	152449	0	0	131682	152449
14	131602	136428	994	18887	112715	135434
15	113304	114124	327	9145	104159	113797
16	115348	116061	1154	32301	83047	114907
17	105456	110287	673	21532	83924	109614
18	107508	112712	611	15263	92245	112101
19	80201	80532	0	0	80201	80532
20	144895	146440	119	2496	142399	146321
21	171478	173722	3904	78070	93408	169819
22	131264	137288	1597	46309	84955	135691
23	156438	163062	277	2766	153672	162785
24	129042	129618	141	4096	124946	129477
25	166345	172643	513	6675	159670	172130
26	166693	167829	468	3741	162952	167361
27	164398	165171	33	901	163497	165138
28	118392	118580	360	9365	109027	118220
29	148431	149101	127	2164	146267	148974
30	137358	139845	39	1298	136060	139806
31	150849	151073	4	114	150735	151069
32	147793	152240	0	0	147793	152240
33	129361	129946	1328	30547	98814	128618
34	142850	144577	329	9537	133313	144248
35	120369	120435	0	0	120369	120435
36	152493	152890	139	2775	149718	152751
37	153578	153724	311	10261	143317	153413
38	128540	128779	90	2960	125580	128689
39	133099	133375	81	3074	130025	133294
40	144115	144287	162	5169	138946	144125
41	139678	139769	908	29060	110618	138861
42	153638	153799	163	5547	148091	153636
43	130326	130443	0	0	130326	130443
44	115344	115396	0	0	115344	115396
45	125063	125113	0	0	125063	125113
46	109062	110201	0	0	109062	110201
47	163190	174498	0	0	163190	174498
48	180453	183429	0	0	180453	183429

A.5. COMPLEXITY FACTOR (CF)

$$CF = ((TPZ / 14) \times (APS / 4))0.39$$

	Total Production Zones	Average Package Size	Complexity Factor
Production Day (DMU)	TPZ	APS	CF
1	8	1.10	0.49
2	20	3.60	1.10
3	9	3.60	0.81
4	14	5.10	1.10
5	14	2.00	0.76
6	11	1.50	0.62
7	17	4.30	1.11
8	12	1.40	0.63
9	10	1.60	0.62
10	8	3.90	0.80
11	10	2.60	0.74
12	8	3.40	0.76
13	8	2.90	0.71
14	12	6.30	1.12
15	13	7.10	1.22
16	12	8.80	1.28
17	17	5.70	1.23
18	13	6.50	1.17
19	9	6.70	1.03
20	13	4.90	1.05
21	17	5.70	1.24
22	17	6.50	1.31
23	12	2.60	0.80
24	17	7.10	1.35
25	11	2.90	0.80
26	6	2.60	0.61
27	17	3.70	1.05
28	14	5.30	1.12
29	18	3.80	1.08
30	17	8.60	1.45
31	19	4.80	1.21
32	7	3.80	0.75
33	13	6.40	1.17
34	20	5.50	1.30
35	18	8.50	1.48
36	12	5.80	1.09
37	21	5.70	1.35
38	18	6.00	1.29
39	19	7.90	1.47
40	20	6.40	1.38
41	21	9.20	1.62
42	24	8.00	1.62
43	19	8.30	1.50
44	15	9.90	1.46
45	16	8.40	1.40
46	13	8.70	1.32
47	5	3.20	0.61
48	6	5.30	0.80

A.6. PACKAGES (PCF)

PCF

Production Day (DMU)	Packages		Complexity Factor	Packages x CF	
	PP <i>(lower bound)</i>	PP <i>(observed)</i>	CF	PCF <i>(lower bound)</i>	PCF <i>(observed)</i>
1	139393	142699	0.49	67648	69252
2	120522	127864	1.10	132679	140761
3	138086	140222	0.81	111382	113105
4	97685	112049	1.10	106988	122720
5	127891	139295	0.76	96834	105469
6	167428	187657	0.62	104107	116686
7	140281	148154	1.11	156281	165052
8	108988	115174	0.63	68753	72655
9	149341	154548	0.62	92332	95551
10	123093	155747	0.80	97936	123917
11	154469	154615	0.74	114773	114882
12	142224	153055	0.76	107483	115669
13	131682	152449	0.71	93044	107717
14	112715	135434	1.12	126666	152197
15	104159	113797	1.22	126749	138477
16	83047	114907	1.28	106462	147305
17	83924	109614	1.23	103638	135362
18	92245	112101	1.17	108068	131330
19	80201	80532	1.03	82557	82898
20	142399	146321	1.05	149191	153300
21	93408	169819	1.24	115882	210677
22	84955	135691	1.31	110917	177158
23	153672	162785	0.80	123229	130537
24	124946	129477	1.35	168692	174809
25	159670	172130	0.80	128054	138046
26	162952	167361	0.61	99160	101843
27	163497	165138	1.05	171165	172883
28	109027	118220	1.12	121598	131850
29	146267	148974	1.08	158208	161136
30	136060	139806	1.45	197859	203306
31	150735	151069	1.21	181948	182351
32	147793	152240	0.75	110212	113528
33	98814	128618	1.17	115515	150356
34	133313	144248	1.30	173428	187654
35	120369	120435	1.48	177772	177869
36	149718	152751	1.09	163274	166582
37	143317	153413	1.35	192989	206585
38	125580	128689	1.29	161816	165823
39	130025	133294	1.47	190977	195778
40	138946	144125	1.38	191508	198647
41	110618	138861	1.62	179274	225046
42	148091	153636	1.62	239670	248644
43	130326	130443	1.50	195502	195677
44	115344	115396	1.46	168798	168874
45	125063	125113	1.40	175573	175644
46	109062	110201	1.32	143431	144929
47	163190	174498	0.61	100326	107278
48	180453	183429	0.80	144301	146680

A.7. INPUT AND OUTPUT DATA

Prdn Day (DMU)	Direct Labor		Rework		Raw Material		Packages x CF	
	DLR (observed)	DLR (upper bound)	RWK (observed)	RWK (upper bound)	RML (observed)	RML (upper bound)	PCF (lower bound)	PCF (observed)
1	788.80	887.40	501.00	1151.00	800.84	1467.04	67647.91	69252.19
2	1347.50	1470.00	5579.00	10023.00	6340.26	11139.65	132678.89	140761.31
3	690.00	805.00	5806.00	14850.00	4874.65	8471.10	111382.35	113105.40
4	1225.00	1347.50	5954.00	12088.00	6141.23	11108.24	106987.82	122719.80
5	1191.30	1299.60	4493.00	8487.00	4812.87	8211.84	96834.24	105469.25
6	915.60	1046.40	1649.00	3895.00	4572.68	7689.95	104106.89	116685.58
7	1442.00	1586.20	7055.00	14025.00	6752.04	11327.22	156280.91	165051.71
8	787.50	1237.50	2709.00	2923.00	2897.71	4888.74	68752.82	72655.02
9	840.00	960.00	1559.00	3071.00	3861.69	6618.13	92332.03	95551.33
10	1316.00	1447.60	4882.00	10060.00	5812.54	9918.36	97936.40	123916.80
11	1012.80	1139.40	3274.00	7012.00	5610.50	9473.67	114773.09	114881.57
12	1519.20	1645.80	6480.00	12244.00	4944.07	8467.35	107483.35	115668.57
13	980.00	1102.50	4422.00	8264.00	5119.43	8626.82	93043.74	107717.26
14	1808.40	1959.10	17258.00	29850.00	6679.28	11507.33	126666.10	152197.04
15	1842.40	1974.00	15943.00	31069.00	5655.94	9738.89	126748.61	138477.34
16	2105.60	2237.20	13528.00	23630.00	5913.64	9902.14	106461.77	147305.07
17	1678.30	1807.40	8552.00	16338.00	6251.86	10558.75	103637.54	135362.21
18	1539.60	1667.90	8736.00	16774.00	5595.36	9386.44	108067.81	131330.27
19	394.80	460.60	3300.00	6824.00	3606.40	6126.03	82557.08	82897.81
20	1774.50	1892.80	12159.00	22215.00	8923.01	15078.00	149190.76	153299.97
21	1729.20	1873.30	9297.00	18865.00	11518.68	19747.12	115881.89	120676.69
22	1700.40	1842.10	13519.00	25027.00	12598.32	21597.84	110917.14	177158.17
23	1109.70	1233.00	3149.00	6219.00	5395.01	9279.68	123229.13	130537.14
24	1711.50	1825.60	13962.00	28570.00	6462.91	10912.59	168691.70	174808.75
25	1249.00	1373.90	5067.00	8249.00	4794.31	8303.72	128053.69	138046.11
26	1216.00	1337.60	4912.00	9250.00	3786.43	6687.09	99160.18	101843.39
27	1266.00	1392.60	9291.00	18789.00	5785.64	9824.38	171165.09	172882.66
28	1399.20	1515.80	13560.00	23410.00	6925.63	11804.24	121597.53	131850.25
29	1449.60	1570.40	6591.00	12179.00	5490.21	9388.49	158208.10	161135.78
30	1570.40	1691.20	13413.00	25513.00	7187.29	12230.39	197858.77	203305.73
31	1549.20	1678.30	10460.00	21276.00	6341.72	10914.99	181948.01	182350.71
32	1224.00	1346.40	10624.00	18186.00	4229.10	7449.00	110211.81	113528.02
33	1378.80	1493.70	8894.00	18258.00	5703.26	10047.14	115514.63	150355.68
34	1623.70	1748.60	9401.00	17721.00	6590.10	11346.21	173428.20	187653.83
35	1842.40	1974.00	16489.00	43447.00	6136.75	10548.33	177771.81	177869.29
36	1411.30	1539.60	14970.00	27458.00	5903.33	10122.83	163273.79	166581.68
37	1528.80	1656.20	10180.00	24786.00	7161.78	12190.10	192989.42	206584.68
38	1759.20	1905.80	15767.00	26405.00	7240.73	12309.12	161816.04	165822.53
39	1710.80	1842.40	8913.00	17989.00	7721.69	13179.65	190976.66	195778.21
40	1748.60	1873.50	7737.00	17107.00	8283.60	14010.93	191508.37	198647.20
41	1974.00	2105.60	19275.00	34621.00	9257.77	15758.47	179273.62	225045.58
42	1842.40	1974.00	13112.00	27874.00	10610.30	18326.98	239670.48	248644.27
43	2292.80	2436.10	13393.00	25189.00	8953.34	15484.73	195501.71	195677.22
44	2888.30	3058.20	13454.00	20232.00	9155.78	15913.71	168797.70	168873.80
45	2305.60	2449.70	13215.00	21081.00	8564.35	14696.71	175573.43	175643.62
46	2921.10	3060.20	12769.00	22541.00	6754.61	12001.51	143430.57	144928.50
47	853.60	960.30	9339.00	11277.00	3602.50	6053.27	100325.71	107277.63
48	926.10	1029.00	3582.00	5516.00	5115.82	8546.36	144300.61	146680.39

A.8. GLOBAL TARGETS

A.8.a Fuzzy Case

Global Targets = Sum of Efficient BCC Projections
Global Target Bounds = Sum of Individual Input/Output Bounds

Data Set 1-24

Output/Inputs	Global Targets	Global Target Bounds	<i>Bound Description</i>
PCF	3449580	2672290	<i>(lower)</i>
DLR	26437	34748	<i>(upper)</i>
RWK	135123	333474	<i>(upper)</i>
RML	120013	241243	<i>(upper)</i>

Data Set 25-48

Output/Inputs	Global Targets	Global Target Bounds	<i>Bound Description</i>
PCF	4437142	3882356	<i>(lower)</i>
DLR	31220	43013	<i>(upper)</i>
RWK	206598	498354	<i>(upper)</i>
RML	143931	277138	<i>(upper)</i>

Data Set 1-48

Output/Inputs	Global Targets	Global Target Bounds	<i>Bound Description</i>
PCF	8311445	6554646	<i>(lower)</i>
DLR	54132	77761	<i>(upper)</i>
RWK	273518	831828	<i>(upper)</i>
RML	241759	518381	<i>(upper)</i>

A.8.b Crisp Case

Global Targets = Sum of Individual Input/Output Bounds

Data Set 1-24

Output/Inputs	Global Targets
PCF	2672290
DLR	34748
RWK	333474
RML	241243

Data Set 25-48

Output/Inputs	Global Target Bounds
PCF	3882356
DLR	43013
RWK	498354
RML	277138

Data Set 1-48

Output/Inputs	Global Target Bounds
PCF	6554646
DLR	77761
RWK	831828
RML	518381

Appendix B

DESCRIPTIVE STATISTICS

- B.1. DATA SET 1-24.....(page 217)**
- B.2. DATA SET 25-48.....(page 217)**
- B.3. DATA SET 1-48.....(page 217)**

B.1. DESCRIPTIVE STATISTICS: DATA SET 1-24

<i>Inputs/ Output</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Mean</i>	<i>Median</i>	<i>Standard Deviation</i>
DLR	395	2106	1310	1332	434
RWK	501	17258	7240	5880	4736
RML	801	12598	5881	5633	2398
PCF	69252	210677	129062	127227	32895

B.2. DESCRIPTIVE STATISTICS: DATA SET 25-48

<i>Inputs/ Output</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Mean</i>	<i>Median</i>	<i>Standard Deviation</i>
DLR	854	2921	1664	1560	512
RWK	3582	19275	11017	10542	3815
RML	3603	10610	6721	6672	1773
PCF	101843	248644	169459	170878	35519

B.3. DESCRIPTIVE STATISTICS: DATA SET 1-48

<i>Inputs/ Output</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Mean</i>	<i>Median</i>	<i>Standard Deviation</i>
DLR	395	2921	1487	1484	507
RWK	501	19275	9129	9102	4696
RML	801	12598	6301	6025	2150
PCF	69252	248644	149260	146993	39747

Appendix C

FUZZY GODEA RESULTS FOR DATA SET 1-24

- C.1. FUZZY GODEA BASE MODEL RESULTS (page 219)**
- C.2. FUZZY GODEA RESULTS - VARIATION 4 (page 221)**
- C.3. FUZZY GODEA RESULTS - VARIATION 5 (page 223)**
- C.4. FUZZY GODEA RESULTS - VARIATION 6 (page 225)**
- C.5. FUZZY GODEA RESULTS - VARIATION 8 (page 227)**
- C.6. FUZZY GODEA RESULTS - VARIATION 9 (page 229)**

C.1. FUZZY GODEA RESULTS: BASE MODEL- DATA SET 1-24

C.1.a. DEA REPRESENTATION

<i>Prdn Day</i>	<i>Efficiency (μ)</i>	<i>Peers</i>	<i>Output /Inputs</i>	<i>Prdn Day</i>	<i>Efficiency (μ)</i>	<i>Peers</i>
1	1.00 1.00 1.00 1.00	$\lambda_1^1=1.00$	PCF DLR RWK RML	13	1.00 1.00 1.00 1.00	$\lambda_1^{13}=0.33, \lambda_{11}^{13}=0.30,$ $\lambda_{19}^{13}=0.16, \lambda_{21}^{13}=0.01,$ $\lambda_{22}^{13}=0.20$
2	1.00 1.00 1.00 1.00	$\lambda_2^2=1.00$	PCF DLR RWK RML	14	1.00 1.00 1.00 1.00	$\lambda_{14}^{14}=1.00$
3	1.00 1.00 1.00 1.00	$\lambda_3^3=1.00$	PCF DLR RWK RML	15	1.00 1.00 1.00 1.00	$\lambda_{15}^{15}=1.00$
4	1.00 1.00 1.00 1.00	$\lambda_1^4=0.43, \lambda_{11}^4=0.11,$ $\lambda_{12}^4=0.07, \lambda_{21}^4=0.09,$ $\lambda_{22}^4=0.30$	PCF DLR RWK RML	16	1.00 1.00 1.00 1.00	$\lambda_{16}^{16}=1.00$
5	1.00 1.00 1.00 1.00	$\lambda_5^5=1.00$	PCF DLR RWK RML	17	1.00 1.00 1.00 1.00	$\lambda_{17}^{17}=1.00$
6	1.00 1.00 1.00 1.00	$\lambda_6^6=1.00$	PCF DLR RWK RML	18	1.00 1.00 1.00 1.00	$\lambda_1^{18}=0.26, \lambda_7^{18}=0.17,$ $\lambda_{15}^{18}=0.05, \lambda_{16}^{18}=0.23,$ $\lambda_{20}^{18}=0.29$
7	1.00 1.00 1.00 1.00	$\lambda_7^7=1.00$	PCF DLR RWK RML	19	1.00 1.00 1.00 1.00	$\lambda_{19}^{19}=1.00$
8	1.00 1.00 1.00 1.00	$\lambda_8^8=1.00$	PCF DLR RWK RML	20	1.00 1.00 1.00 1.00	$\lambda_{20}^{20}=1.00$
9	1.00 1.00 1.00 1.00	$\lambda_9^9=1.00$	PCF DLR RWK RML	21	1.00 1.00 1.00 1.00	$\lambda_{21}^{21}=1.00$
10	1.00 1.00 1.00 1.00	$\lambda_{10}^{10}=1.00$	PCF DLR RWK RML	22	1.00 1.00 1.00 1.00	$\lambda_{22}^{22}=1.00$
11	1.00 1.00 1.00 1.00	$\lambda_{11}^{11}=1.00$	PCF DLR RWK RML	23	1.00 1.00 1.00 1.00	$\lambda_{23}^{23}=1.00$
12	1.00 1.00 1.00 1.00	$\lambda_{12}^{12}=1.00$	PCF DLR RWK RML	24	1.00 1.00 1.00 1.00	$\lambda_{24}^{24}=1.00$

C.1.b. GLOBAL TARGETS

<i>Output/Inputs</i>	<i>Target</i>	<i>Achieved</i>	<i>Slack</i>	<i>Effectiveness (μ)</i>
PCF	3449580.42	3097486.42	352094.00	0.55
DLR	26436.52	31450.10	-5013.58	0.40
RWK	135123.07	173766.10	-38643.03	0.81
RML	120013.14	141140.94	-21127.80	0.83

C.2. FUZZY GODEA RESULTS: VARIATION 4 - DATA SET 1-24

C.2.a. DEA REPRESENTATION

<i>Prdn Day</i>	<i>Efficiency (μ)</i>	<i>Peers</i>	<i>Output/Inputs</i>	<i>Prdn Day</i>	<i>Efficiency (μ)</i>	<i>Peers</i>
1	1.00 1.00 1.00 1.00	$\lambda_1^1=1.00$	PCF DLR RWK RML	13	1.00 1.00 1.00 1.00	$\lambda_1^{13}=0.29, \lambda_9^{13}=0.31,$ $\lambda_{19}^{13}=0.14, \lambda_{21}^{13}=0.03,$ $\lambda_{22}^{13}=0.23$
2	1.00 1.00 1.00 1.00	$\lambda_1^2=0.36, \lambda_{12}^2=0.19,$ $\lambda_{21}^2=0.44$	PCF DLR RWK RML	14	1.00 1.00 1.00 1.00	$\lambda_{14}^{14}=1.00$
3	1.00 1.00 1.00 1.00	$\lambda_3^3=1.00$	PCF DLR RWK RML	15	1.00 1.00 1.00 1.00	$\lambda_{15}^{15}=1.00$
4	1.00 1.00 1.00 1.00	$\lambda_1^4=0.43, \lambda_{11}^4=0.11,$ $\lambda_{12}^4=0.07, \lambda_{21}^4=0.09,$ $\lambda_{22}^4=0.30$	PCF DLR RWK RML	16	1.00 1.00 1.00 1.00	$\lambda_{16}^{16}=1.00$
5	1.00 1.00 1.00 1.00	$\lambda_5^5=1.00$	PCF DLR RWK RML	17	1.00 1.00 1.00 1.00	$\lambda_{17}^{17}=1.00$
6	1.00 1.00 1.00 1.00	$\lambda_6^6=1.00$	PCF DLR RWK RML	18	1.00 1.00 1.00 1.00	$\lambda_1^{18}=0.01, \lambda_2^{18}=0.34,$ $\lambda_{12}^{18}=0.36, \lambda_{15}^{18}=0.25,$ $\lambda_{24}^{18}=0.04$
7	1.00 1.00 1.00 1.00	$\lambda_7^7=1.00$	PCF DLR RWK RML	19	1.00 1.00 1.00 1.00	$\lambda_{19}^{19}=1.00$
8	1.00 1.00 1.00 1.00	$\lambda_8^8=1.00$	PCF DLR RWK RML	20	1.00 1.00 1.00 1.00	$\lambda_{20}^{20}=1.00$
9	1.00 1.00 1.00 1.00	$\lambda_9^9=1.00$	PCF DLR RWK RML	21	1.00 1.00 1.00 1.00	$\lambda_{21}^{21}=1.00$
10	1.00 1.00 1.00 1.00	$\lambda_{10}^{10}=1.00$	PCF DLR RWK RML	22	1.00 1.00 1.00 1.00	$\lambda_{22}^{22}=1.00$
11	1.00 1.00 1.00 1.00	$\lambda_{11}^{11}=1.00$	PCF DLR RWK RML	23	1.00 1.00 1.00 1.00	$\lambda_{23}^{23}=1.00$
12	1.00 1.00 1.00 1.00	$\lambda_{12}^{12}=1.00$	PCF DLR RWK RML	24	1.00 1.00 1.00 1.00	$\lambda_{24}^{24}=1.00$

C.2.b. GLOBAL TARGETS

<i>Output/Inputs</i>	<i>Target</i>	<i>Achieved</i>	<i>Slack</i>	<i>Possible</i>
PCF	2672290.00	3097486.00	425196.50	Increase
DLR	34747.90	31450.10	3297.80	Decrease
RWK	333474.00	173766.10	159707.90	Decrease
RML	241242.90	141140.90	100102.00	Decrease

C.3. FUZZY GODEA RESULTS: VARIATION 5 - DATA SET 1-24

C.3.a. DEA REPRESENTATION

<i>Prdn Day</i>	<i>Slacks</i>	<i>Peers</i>	<i>Output /Inputs</i>	<i>Prdn Day</i>	<i>Slacks</i>	<i>Peers</i>
1	0 0 0 0	$\lambda_1^1=1.00$	PCF DLR RWK RML	13	-16828 56 0 0	$\lambda_3^{13}=0.42, \lambda_6^{13}=0.39,$ $\lambda_7^{13}=0.19$
2	-11085 49 0 183	$\lambda_6^2=0.27, \lambda_{72}^2=0.73$	PCF DLR RWK RML	14	-10841 396 10251 0	$\lambda_3^{14}=0.04, \lambda_7^{14}=0.96$
3	0 0 0 0	$\lambda_3^3=1.00$	PCF DLR RWK RML	15	0 758 8116 0	$\lambda_3^{15}=0.55, \lambda_7^{15}=0.24,$ $\lambda_{24}^{15}=0.21$
4	-25380 0 0 72	$\lambda_3^4=0.18, \lambda_6^4=0.16,$ $\lambda_7^4=0.66$	PCF DLR RWK RML	16	0 870 6232 0	$\lambda_1^{16}=0.05, \lambda_3^{16}=0.28,$ $\lambda_7^{16}=0.54, \lambda_{24}^{16}=0.13$
5	-9764 415 0 0	$\lambda_3^5=0.66, \lambda_6^5=0.32,$ $\lambda_7^4=0.02$	PCF DLR RWK RML	17	-15850 437 1830 0	$\lambda_3^{17}=0.27, \lambda_7^{17}=0.73$
6	0 0 0 0	$\lambda_6^6=1.00$	PCF DLR RWK RML	18	-1717 561 2451 0	$\lambda_3^{18}=0.62, \lambda_7^{18}=0.38$
7	0 0 0 0	$\lambda_7^7=1.00$	PCF DLR RWK RML	19	0 0 0 0	$\lambda_{19}^{19}=1.00$
8	-9044 249 00 0	$\lambda_1^8=0.30, \lambda_3^8=0.09,$ $\lambda_{19}^8=0.61$	PCF DLR RWK RML	20	-20709 276 4664 1235	$\lambda_7^{20}=0.80, \lambda_{21}^{20}=0.20$
9	-7891 0 0 181	$\lambda_1^9=0.21, \lambda_6^9=0.70,$ $\lambda_{19}^9=0.09$	PCF DLR RWK RML	21	0 0 0 0	$\lambda_{21}^{21}=1.00$
10	-19810 115 0 0	$\lambda_3^{10}=0.05, \lambda_3^{10}=0.39,$ $\lambda_3^{10}=0.56$	PCF DLR RWK RML	22	-28943 0 4447 1558	$\lambda_7^{22}=0.10, \lambda_{21}^{22}=0.90$
11	-12395 0 0 516	$\lambda_3^{11}=0.10, \lambda_6^{11}=0.68,$ $\lambda_7^{11}=0.22$	PCF DLR RWK RML	23	0 47 0 152	$\lambda_6^{23}=0.73, \lambda_7^{23}=0.25,$ $\lambda_{21}^{23}=0.02$
12	0 785 652 0	$\lambda_1^{12}=0.01, \lambda_3^{12}=0.93$ $\lambda_1^{12}=0.06$	PCF DLR RWK RML	24	0 0 0 0	$\lambda_{24}^{24}=1.00$

C.3.b. GLOBAL TARGETS

<i>Output/Inputs</i>	<i>Target</i>	<i>Achieved</i>	<i>Slack</i>	<i>Effectiveness (μ)</i>
PCF	3449580.42	3287904.00	161676.42	0.80
DLR	26436.52	26436.52	0.00	1.00
RWK	135123.07	135123.07	0.00	1.00
RML	120013.14	137227.77	-17214.63	0.86

C.4. FUZZY GODEA RESULTS: VARIATION 6 - DATA SET 1-24

C.4.a. DEA REPRESENTATION

<i>Prdn Day</i>	<i>Efficiency (μ)</i>	<i>Peers</i>	<i>Output /Inputs</i>	<i>Prdn Day</i>	<i>Efficiency (μ)</i>	<i>Peers</i>
1	1.00 1.00 1.00 1.00	$\lambda_1^1=1.00$	PCF DLR RWK RML	13	1.00 1.00 1.00 1.00	$\lambda_1^{13}=0.32, \lambda_2^{13}=0.02,$ $\lambda_{11}^{13}=0.31, \lambda_{19}^{13}=0.16,$ $\lambda_{22}^{13}=0.19$
2	1.00 1.00 1.00 1.00	$\lambda_2^2=1.00$	PCF DLR RWK RML	14	1.00 1.00 1.00 1.00	$\lambda_{14}^{14}=1.00$
3	1.00 1.00 1.00 1.00	$\lambda_3^3=1.00$	PCF DLR RWK RML	15	1.00 1.00 1.00 1.00	$\lambda_{15}^{15}=1.00$
4	1.00 1.00 1.00 1.00	$\lambda_1^4=0.33, \lambda_2^4=0.22,$ $\lambda_9^4=0.13, \lambda_{22}^4=0.32$	PCF DLR RWK RML	16	1.00 1.00 1.00 1.00	$\lambda_{16}^{16}=1.00$
5	1.00 1.00 1.00 1.00	$\lambda_5^5=1.00$	PCF DLR RWK RML	17	1.00 1.00 1.00 1.00	$\lambda_{17}^{17}=1.00$
6	1.00 1.00 1.00 1.00	$\lambda_6^6=1.00$	PCF DLR RWK RML	18	1.00 1.00 1.00 1.00	$\lambda_1^{18}=0.22, \lambda_2^{18}=0.27,$ $\lambda_{14}^{18}=0.08, \lambda_{16}^{18}=0.33,$ $\lambda_{22}^{18}=0.10$
7	1.00 1.00 1.00 1.00	$\lambda_7^7=1.00$	PCF DLR RWK RML	19	1.00 1.00 1.00 1.00	$\lambda_{19}^{19}=1.00$
8	1.00 1.00 1.00 1.00	$\lambda_8^8=1.00$	PCF DLR RWK RML	20	1.00 1.00 1.00 1.00	$\lambda_{20}^{20}=1.00$
9	1.00 1.00 1.00 1.00	$\lambda_9^9=1.00$	PCF DLR RWK RML	21	1.00 1.00 1.00 1.00	$\lambda_{21}^{21}=1.00$
10	1.00 1.00 1.00 1.00	$\lambda_{10}^{10}=1.00$	PCF DLR RWK RML	22	1.00 1.00 1.00 1.00	$\lambda_{22}^{22}=1.00$
11	1.00 1.00 1.00 1.00	$\lambda_{11}^{11}=1.00$	PCF DLR RWK RML	23	1.00 1.00 1.00 1.00	$\lambda_{23}^{23}=1.00$
12	1.00 1.00 1.00 1.00	$\lambda_{12}^{12}=1.00$	PCF DLR RWK RML	24	1.00 1.00 1.00 1.00	$\lambda_{24}^{24}=1.00$

C.4.b. GLOBAL TARGETS

<i>Output/Inputs</i>	<i>Target</i>	<i>Achieved</i>	<i>Deviations</i>	
PCF	2672290.00	3097486.00	425196.30	PPCF
DLR	34747.90	31450.10	3297.80	NDLR
RWK	333474.00	173766.10	159707.90	NRWK
RML	241242.90	141140.90	100102.00	NRML

C.5. FUZZY GODEA RESULTS: VARIATION 8 - DATA SET 1-24

C.5.a. DEA REPRESENTATION

<i>Prdn Day</i>	<i>Deviations</i>	<i>Peers</i>	<i>Output /Input</i>	<i>Prdn Day</i>	<i>Deviations</i>	<i>Peers</i>
1	0 0 0 0	$\lambda_1^1=1.00$	PCF DLR RWK RML	13	0 0 0 0	$\lambda_1^{13}=0.32, \lambda_2^{13}=0.02,$ $\lambda_{11}^{13}=0.31, \lambda_{19}^{13}=0.16,$ $\lambda_{22}^{13}=0.19$
2	0 0 0 0	$\lambda_2^2=1.00$	PCF DLR RWK RML	14	0 0 0 0	$\lambda_{14}^{14}=1.00$
3	0 0 0 0	$\lambda_3^3=1.00$	PCF DLR RWK RML	15	0 0 0 0	$\lambda_{15}^{15}=1.00$
4	0 0 0 0	$\lambda_1^4=0.35, \lambda_2^4=0.20,$ $\lambda_9^4=0.07, \lambda_{10}^4=0.07,$ $\lambda_{22}^4=0.31$	PCF DLR RWK RML	16	0 0 0 0	$\lambda_{16}^{16}=1.00$
5	0 0 0 0	$\lambda_5^5=1.00$	PCF DLR RWK RML	17	0 0 0 0	$\lambda_{17}^{17}=1.00$
6	0 0 0 0	$\lambda_6^6=1.00$	PCF DLR RWK RML	18	0 0 0 0	$\lambda_1^{18}=0.02, \lambda_2^{18}=0.10,$ $\lambda_7^{18}=0.12, \lambda_{12}^{18}=0.53,$ $\lambda_{14}^{18}=0.23$
7	0 0 0 0	$\lambda_7^7=1.00$	PCF DLR RWK RML	19	0 0 0 0	$\lambda_{19}^{19}=1.00$
8	0 0 0 0	$\lambda_8^8=1.00$	PCF DLR RWK RML	20	0 0 0 0	$\lambda_{20}^{20}=1.00$
9	0 0 0 0	$\lambda_9^9=1.00$	PCF DLR RWK RML	21	0 0 0 0	$\lambda_{21}^{21}=1.00$
10	0 0 0 0	$\lambda_{10}^{10}=1.00$	PCF DLR RWK RML	22	0 0 0 0	$\lambda_{22}^{22}=1.00$
11	0 0 0 0	$\lambda_{11}^{11}=1.00$	PCF DLR RWK RML	23	0 0 0 0	$\lambda_{23}^{23}=1.00$
12	0 0 0 0	$\lambda_{12}^{12}=1.00$	PCF DLR RWK RML	24	0 0 0 0	$\lambda_{24}^{24}=1.00$

C.5.b. GLOBAL TARGETS

<i>Output/Inputs</i>	<i>Target</i>	<i>Achieved</i>	<i>Slack</i>	<i>Effectiveness (μ)</i>
PCF	3449580.42	3097483.40	352097.02	0.55
DLR	26436.52	31448.28	-5011.76	0.40
RWK	135123.07	173801.50	-38678.43	0.81
RML	120013.14	141107.12	-21093.98	0.83

C.6. FUZZY GODEA RESULTS: VARIATION 9 - DATA SET 1-24

C.6.a. DEA REPRESENTATION

<i>Prdn Day</i>	<i>Deviations</i>	<i>Peers</i>	<i>Output /Inputs</i>	<i>Prdn Day</i>	<i>Deviations</i>	<i>Peers</i>
1	(+)45421.13 0 (+)3484.47 (+)3941.56	$\lambda_3^1=0.56, \lambda_6^1=0.44$	PCF DLR RWK RML	13	(-)16827.89 (-)56.45 0 0	$\lambda_3^{13}=0.42, \lambda_6^{13}=0.39,$ $\lambda_7^{13}=0.19$
2	(+)14592.19 (-)21.21 (+)640.06 0	$\lambda_3^2=0.06, \lambda_6^2=0.14,$ $\lambda_6^2=0.80$	PCF DLR RWK RML	14	(+)10841.44 (-)395.55 (-)10251.41 0	$\lambda_3^{14}=0.04, \lambda_7^{14}=0.96$
3	0 0 0 0	$\lambda_3^3=1.00$	PCF DLR RWK RML	15	(+)23254.42 (-)448.46 (-)8967.825 (+)976.11	$\lambda_3^{15}=0.06, \lambda_7^{15}=0.94$
4	(+)26383.89 0 (+)378.84 0	$\lambda_3^4=0.23, \lambda_6^4=0.08,$ $\lambda_7^4=0.69$	PCF DLR RWK RML	16	0 (-)920.51 (-)6889.70 (+)197.02	$\lambda_3^{16}=0.34, \lambda_7^{16}=0.65$
5	(+)9764.04 (-)414.63 0 0	$\lambda_3^5=0.66, \lambda_6^5=0.32,$ $\lambda_7^5=0.02$	PCF DLR RWK RML	17	(+)15849.80 (-)436.65 (-)1829.76 0	$\lambda_3^{17}=0.27, \lambda_7^{17}=0.73$
6	0 0 0 0	$\lambda_6^6=1.00$	PCF DLR RWK RML	18	(+)1716.76 (-)560.92 (-)2450.52 0	$\lambda_3^{18}=0.62, \lambda_7^{18}=0.38,$
7	0 0 0 0	$\lambda_7^7=1.00$	PCF DLR RWK RML	19	(+)30207.59 (+)295.20 (-)2506.00 (+)1268.25	$\lambda_3^{19}=1.00$
8	(+)41997.67 0 (+)1300.42 (+)1846.43	$\lambda_3^8=0.57, \lambda_6^8=0.43$	PCF DLR RWK RML	20	(+)11751.74 (-)332.50 (-)5104.00 (-)2170.97	$\lambda_7^{20}=1.00$
9	(+)19934.51 0 (+)1483.04 (+)812.18	$\lambda_3^9=0.34, \lambda_6^9=0.66$	PCF DLR RWK RML	21	(-)45624.97 (-)287.20 (-)2242.00 (-)4766.64	$\lambda_7^{21}=1.00$
10	(+)19809.67 (-)114.72 0 0	$\lambda_3^{10}=0.04,$ $\lambda_6^{10}=0.40,$ $\lambda_7^{10}=0.56$	PCF DLR RWK RML	22	(-)12106.46 (-)258.40 (-)6464.00 (-)5846.28	$\lambda_7^{22}=1.00$
11	(+)19550.46 0 (+)2701.34 0	$\lambda_3^{11}=0.51,$ $\lambda_6^{11}=0.08,$ $\lambda_7^{11}=0.41$	PCF DLR RWK RML	23	(+)4242.43 0 (+)591.48 0	$\lambda_3^{23}=0.02, \lambda_6^{23}=0.61,$ $\lambda_7^{23}=0.37$
12	0 (-)792.10 (-)612.37 (+)23.22	$\lambda_3^{12}=0.95, \lambda_7^{12}=0.05$	PCF DLR RWK RML	24	(-)9757.03 (-)269.50 (-)6906.99 (+)289.13	$\lambda_7^{24}=1.00$

C.6.b. GLOBAL TARGETS

<i>Output/Inputs</i>	<i>Target</i>	<i>Achieved</i>	<i>Slack</i>	<i>Effectiveness (μ)</i>
PCF	3449580.42	3342314.34	107266.08	0.86
DLR	26436.52	26436.52	0.00	1.00
RWK	135123.07	135123.07	0.00	1.00
RML	120013.14	137712.69	-17699.55	0.85

Appendix D

FUZZY GODEA RESULTS FOR DATA SET 25-48

- D.1. FUZZY GODEA BASE MODEL RESULTS (page 232)**
- D.2. FUZZY GODEA RESULTS - VARIATION 4..... (page 234)**
- D.3. FUZZY GODEA RESULTS - VARIATION 5 (page 236)**
- D.4. FUZZY GODEA RESULTS - VARIATION 6..... (page 238)**
- D.5. FUZZY GODEA RESULTS - VARIATION 8..... (page 240)**
- D.6. FUZZY GODEA RESULTS - VARIATION 9..... (page 242)**

D.1. FUZZY GODEA RESULTS: BASE MODEL - DATA SET 25-48

D.1.a. DEA REPRESENTATION

<i>Prdn Day</i>	<i>Efficiency (μ)</i>	<i>Peers</i>	<i>Output /Inputs</i>	<i>Prdn Day</i>	<i>Efficiency (μ)</i>	<i>Peers</i>
25	1.00 1.00 1.00 1.00	$\lambda_{25}^{25}=1.00$	PCF DLR RWK RML	37	1.00 1.00 1.00 1.00	$\lambda_{37}^{37}=1.00$
26	1.00 1.00 1.00 1.00	$\lambda_{26}^{26}=1.00$	PCF DLR RWK RML	38	1.00 1.00 1.00 1.00	$\lambda_{38}^{38}=1.00$
27	1.00 1.00 1.00 1.00	$\lambda_{27}^{27}=1.00$	PCF DLR RWK RML	39	1.00 1.00 1.00 1.00	$\lambda_{25}^{39}=0.11, \lambda_{37}^{39}=0.28,$ $\lambda_{40}^{39}=0.46, \lambda_{42}^{39}=0.09,$ $\lambda_{46}^{39}=0.06$
28	1.00 1.00 1.00 1.00	$\lambda_{28}^{28}=1.00$	PCF DLR RWK RML	40	1.00 1.00 1.00 1.00	$\lambda_{40}^{40}=1.00$
29	1.00 1.00 1.00 1.00	$\lambda_{29}^{29}=1.00$	PCF DLR RWK RML	41	1.00 1.00 1.00 1.00	$\lambda_{41}^{41}=1.00$
30	1.00 1.00 1.00 1.00	$\lambda_{30}^{30}=1.00$	PCF DLR RWK RML	42	1.00 1.00 1.00 1.00	$\lambda_{42}^{42}=1.00$
31	1.00 1.00 1.00 1.00	$\lambda_{29}^{31}=0.04, \lambda_{34}^{31}=0.32,$ $\lambda_{35}^{31}=0.26, \lambda_{37}^{31}=0.23,$ $\lambda_{48}^{31}=0.15$	PCF DLR RWK RML	43	1.00 1.00 1.00 1.00	$\lambda_{25}^{43}=0.04, \lambda_{33}^{43}=0.03,$ $\lambda_{35}^{43}=0.15, \lambda_{42}^{43}=0.33,$ $\lambda_{44}^{43}=0.46$
32	1.00 1.00 1.00 1.00	$\lambda_{32}^{32}=1.00$	PCF DLR RWK RML	44	1.00 1.00 1.00 1.00	$\lambda_{44}^{44}=1.00$
33	1.00 1.00 1.00 1.00	$\lambda_{25}^{33}=0.57, \lambda_{28}^{33}=0.19,$ $\lambda_{30}^{33}=0.16, \lambda_{35}^{33}=0.07,$ $\lambda_{44}^{33}=0.01$	PCF DLR RWK RML	45	1.00 1.00 1.00 1.00	$\lambda_{25}^{45}=0.04, \lambda_{38}^{45}=0.10,$ $\lambda_{42}^{45}=0.19, \lambda_{44}^{45}=0.57,$ $\lambda_{47}^{45}=0.10$
34	1.00 1.00 1.00 1.00	$\lambda_{34}^{34}=1.00$	PCF DLR RWK RML	46	1.00 1.00 1.00 1.00	$\lambda_{46}^{46}=1.00$
35	1.00 1.00 1.00 1.00	$\lambda_{35}^{35}=1.00$	PCF DLR RWK RML	47	1.00 1.00 1.00 1.00	$\lambda_{47}^{47}=1.00$
36	1.00 1.00 1.00 1.00	$\lambda_{36}^{36}=1.00$	PCF DLR RWK RML	48	1.00 1.00 1.00 1.00	$\lambda_{48}^{48}=1.00$

D.1.b. GLOBAL TARGETS

<i>Output/Inputs</i>	<i>Target</i>	<i>Achieved</i>	<i>Slack</i>	<i>Effectiveness (μ)</i>
PCF	4437142.20	4067006.78	370135.42	0.33
DLR	31219.67	39930.90	-8711.23	0.26
RWK	206598.27	264408.00	-57809.73	0.80
RML	143930.90	161295.82	-17364.92	0.87

D.2. FUZZY GODEA RESULTS: VARIATION 4 - DATA SET 25-48

D.2.a. DEA REPRESENTATION

<i>Prdn Day</i>	<i>Efficiency (μ)</i>	<i>Peers</i>	<i>Output /Inputs</i>	<i>Prdn Day</i>	<i>Efficiency (μ)</i>	<i>Peers</i>
25	1.00 1.00 1.00 1.00	$\lambda_{25}^{25}=1.00$	PCF DLR RWK RML	37	1.00 1.00 1.00 1.00	$\lambda_{37}^{37}=1.00$
26	1.00 1.00 1.00 1.00	$\lambda_{26}^{26}=1.00$	PCF DLR RWK RML	38	1.00 1.00 1.00 1.00	$\lambda_{38}^{38}=1.00$
27	1.00 1.00 1.00 1.00	$\lambda_{27}^{27}=1.00$	PCF DLR RWK RML	39	1.00 1.00 1.00 1.00	$\lambda_{25}^{39}=0.07, \lambda_{34}^{39}=0.34,$ $\lambda_{40}^{39}=0.44, \lambda_{42}^{39}=0.13,$ $\lambda_{46}^{39}=0.02$
28	1.00 1.00 1.00 1.00	$\lambda_{28}^{28}=1.00$	PCF DLR RWK RML	40	1.00 1.00 1.00 1.00	$\lambda_{40}^{40}=1.00$
29	1.00 1.00 1.00 1.00	$\lambda_{29}^{29}=1.00$	PCF DLR RWK RML	41	1.00 1.00 1.00 1.00	$\lambda_{41}^{41}=1.00$
30	1.00 1.00 1.00 1.00	$\lambda_{30}^{30}=1.00$	PCF DLR RWK RML	42	1.00 1.00 1.00 1.00	$\lambda_{42}^{42}=1.00$
31	1.00 1.00 1.00 1.00	$\lambda_{29}^{31}=0.16, \lambda_{35}^{31}=0.27,$ $\lambda_{37}^{31}=0.42, \lambda_{46}^{31}=0.02,$ $\lambda_{48}^{31}=0.13$	PCF DLR RWK RML	43	1.00 1.00 1.00 1.00	$\lambda_{26}^{43}=0.01, \lambda_{30}^{43}=0.23,$ $\lambda_{41}^{43}=0.03, \lambda_{42}^{43}=0.23,$ $\lambda_{44}^{43}=0.50$
32	1.00 1.00 1.00 1.00	$\lambda_{32}^{32}=1.00$	PCF DLR RWK RML	44	1.00 1.00 1.00 1.00	$\lambda_{44}^{44}=1.00$
33	1.00 1.00 1.00 1.00	$\lambda_{25}^{33}=0.34, \lambda_{27}^{33}=0.39,$ $\lambda_{28}^{33}=0.20, \lambda_{46}^{33}=0.06,$ $\lambda_{47}^{33}=0.01$	PCF DLR RWK RML	45	1.00 1.00 1.00 1.00	$\lambda_{28}^{45}=0.16, \lambda_{30}^{45}=0.15,$ $\lambda_{42}^{45}=0.10, \lambda_{44}^{45}=0.57,$ $\lambda_{48}^{45}=0.02$
34	1.00 1.00 1.00 1.00	$\lambda_{34}^{34}=1.00$	PCF DLR RWK RML	46	1.00 1.00 1.00 1.00	$\lambda_{46}^{46}=1.00$
35	1.00 1.00 1.00 1.00	$\lambda_{35}^{35}=1.00$	PCF DLR RWK RML	47	1.00 1.00 1.00 1.00	$\lambda_{47}^{47}=1.00$
36	1.00 1.00 1.00 1.00	$\lambda_{36}^{36}=1.00$	PCF DLR RWK RML	48	1.00 1.00 1.00 1.00	$\lambda_{48}^{48}=1.00$

D.2.b. GLOBAL TARGETS

<i>Output/Inputs</i>	<i>Target</i>	<i>Achieved</i>	<i>Slack</i>	<i>Possible</i>
PCF	3882356.00	4067007.00	184650.80	Increase
DLR	43013.10	39930.90	3082.20	Decrease
RWK	498354.00	264408.00	233946.00	Decrease
RML	277138.30	161296.00	115842.30	Decrease

D.3. FUZZY GODEA RESULTS: VARIATION 5 - DATA SET 25-48

D.3.a. DEA REPRESENTATION

<i>Prdn Day</i>	<i>Slacks</i>	<i>Peers</i>	<i>Output /Inputs</i>	<i>Prdn Day</i>	<i>Slacks</i>	<i>Peers</i>
25	-263 338 262 0	$\lambda_{47}^{25}=0.21, \lambda_{48}^{25}=0.79$	PCF DLR RWK RML	37	0 0 0 0	$\lambda_{37}^{37}=1.00$
26	0 0 0 0	$\lambda_{26}^{26}=1.00$	PCF DLR RWK RML	38	-41725 223 5520 0	$\lambda_{37}^{38}=0.98, \lambda_{42}^{38}=0.02$
27	0 0 0 0	$\lambda_{27}^{27}=1.00$	PCF DLR RWK RML	39	-5096 281 0 0	$\lambda_{37}^{39}=0.27, \lambda_{42}^{39}=0.37,$ $\lambda_{48}^{39}=0.36$
28	-62784 0 4841 0	$\lambda_{37}^{28}=0.66$ $\lambda_{42}^{28}=0.08, \lambda_{48}^{28}=0.26$	PCF DLR RWK RML	40	0 0 0 0	$\lambda_{40}^{40}=1.00$
29	0 0 0 0	$\lambda_{29}^{29}=1.00$	PCF DLR RWK RML	41	-7103 255 7313 0	$\lambda_{37}^{41}=0.39, \lambda_{42}^{41}=0.61$
30	-3590 39 3211 0	$\lambda_{37}^{30}=0.01, \lambda_{42}^{30}=0.99$	PCF DLR RWK RML	42	0 0 0 0	$\lambda_{42}^{42}=1.00$
31	-223 262 2925 0	$\lambda_{37}^{31}=0.60, \lambda_{48}^{31}=0.40$	PCF DLR RWK RML	43	-32758 601 1690 0	$\lambda_{37}^{43}=0.48, \lambda_{42}^{43}=0.52$
32	-10065 340 3669 0	$\lambda_{47}^{32}=0.59, \lambda_{48}^{32}=0.41$	PCF DLR RWK RML	44	-62031 1178 1579 0	$\lambda_{37}^{44}=0.42, \lambda_{42}^{44}=0.58$
33	-13525 280 3418 0	$\lambda_{37}^{33}=0.29, \lambda_{48}^{33}=0.71$	PCF DLR RWK RML	45	-48047 649 1843 0	$\lambda_{37}^{45}=0.59, \lambda_{42}^{45}=0.41$
34	-2192 263 1065 0	$\lambda_{37}^{34}=0.72, \lambda_{48}^{34}=0.28$	PCF DLR RWK RML	46	-49735 1512 3902 0	$\lambda_{37}^{46}=0.80, \lambda_{48}^{46}=0.20$
35	-2212 540 7725 0	$\lambda_{27}^{35}=0.53, \lambda_{37}^{35}=0.33,$ $\lambda_{48}^{35}=0.14$	PCF DLR RWK RML	47	0 0 0 0	$\lambda_{47}^{47}=1.00$
36	-3156 253 8848 0	$\lambda_{37}^{36}=0.38, \lambda_{48}^{36}=0.62$	PCF DLR RWK RML	48	0 0 0 0	$\lambda_{48}^{48}=1.00$

D.3.b. GLOBAL TARGETS

<i>Output/Inputs</i>	<i>Target</i>	<i>Achieved</i>	<i>Slack</i>	<i>Effectiveness (μ)</i>
PCF	4437142.20	4411511.07	25631.13	0.95
DLR	31219.67	32916.04	-1696.37	0.86
RWK	206598.27	206598.27	0.00	1.00
RML	143930.90	161295.82	-17364.92	0.87

D.4. FUZZY GODEA RESULTS: VARIATION 6 - DATA SET 25-48

D.4.a. DEA REPRESENTATION

<i>Prdn Day</i>	<i>Efficiency (μ)</i>	<i>Peers</i>	<i>Output /Inputs</i>	<i>Prdn Day</i>	<i>Efficiency (μ)</i>	<i>Peers</i>
25	1.00 1.00 1.00 1.00	$\lambda_{25}^{25}=1.00$	PCF DLR RWK RML	37	1.00 1.00 1.00 1.00	$\lambda_{37}^{37}=1.00$
26	1.00 1.00 1.00 1.00	$\lambda_{26}^{26}=1.00$	PCF DLR RWK RML	38	1.00 1.00 1.00 1.00	$\lambda_{38}^{38}=1.00$
27	1.00 1.00 1.00 1.00	$\lambda_{27}^{27}=1.00$	PCF DLR RWK RML	39	1.00 1.00 1.00 1.00	$\lambda_{25}^{39}=0.11, \lambda_{37}^{39}=0.28,$ $\lambda_{40}^{39}=0.47, \lambda_{42}^{39}=0.09,$ $\lambda_{46}^{39}=0.05$
28	1.00 1.00 1.00 1.00	$\lambda_{28}^{28}=1.00$	PCF DLR RWK RML	40	1.00 1.00 1.00 1.00	$\lambda_{40}^{40}=1.00$
29	1.00 1.00 1.00 1.00	$\lambda_{29}^{29}=1.00$	PCF DLR RWK RML	41	1.00 1.00 1.00 1.00	$\lambda_{41}^{41}=1.00$
30	1.00 1.00 1.00 1.00	$\lambda_{30}^{30}=1.00$	PCF DLR RWK RML	42	1.00 1.00 1.00 1.00	$\lambda_{42}^{42}=1.00$
31	1.00 1.00 1.00 1.00	$\lambda_{25}^{31}=0.24, \lambda_{30}^{31}=0.02,$ $\lambda_{35}^{31}=0.23, \lambda_{37}^{31}=0.50,$ $\lambda_{46}^{31}=0.01$	PCF DLR RWK RML	43	1.00 1.00 1.00 1.00	$\lambda_{28}^{43}=0.01, \lambda_{30}^{43}=0.25,$ $\lambda_{35}^{43}=0.01, \lambda_{42}^{43}=0.23,$ $\lambda_{44}^{43}=0.50$
32	1.00 1.00 1.00 1.00	$\lambda_{32}^{32}=1.00$	PCF DLR RWK RML	44	1.00 1.00 1.00 1.00	$\lambda_{44}^{44}=1.00$
33	1.00 1.00 1.00 1.00	$\lambda_{25}^{33}=0.26, \lambda_{26}^{33}=0.25,$ $\lambda_{28}^{33}=0.14, \lambda_{30}^{33}=0.31,$ $\lambda_{40}^{33}=0.04$	PCF DLR RWK RML	45	1.00 1.00 1.00 1.00	$\lambda_{25}^{45}=0.11, \lambda_{28}^{45}=0.13,$ $\lambda_{41}^{45}=0.12, \lambda_{42}^{45}=0.10,$ $\lambda_{44}^{45}=0.54$
34	1.00 1.00 1.00 1.00	$\lambda_{34}^{34}=1.00$	PCF DLR RWK RML	46	1.00 1.00 1.00 1.00	$\lambda_{46}^{46}=1.00$
35	1.00 1.00 1.00 1.00	$\lambda_{35}^{35}=1.00$	PCF DLR RWK RML	47	1.00 1.00 1.00 1.00	$\lambda_{47}^{47}=1.00$
36	1.00 1.00 1.00 1.00	$\lambda_{36}^{36}=1.00$	PCF DLR RWK RML	48	1.00 1.00 1.00 1.00	$\lambda_{48}^{48}=1.00$

D.4.b. GLOBAL TARGETS

<i>Output/Inputs</i>	<i>Target</i>	<i>Achieved</i>	<i>Deviations</i>	
PCF	3882356.00	4067007.00	<i>184650.80</i>	PPCF
DLR	43013.10	39930.90	<i>3082.20</i>	NDLR
RWK	498354.00	264408.00	<i>233946.00</i>	NRWK
RML	277138.30	161296.00	<i>115842.30</i>	NRML

D.5. FUZZY GODEA RESULTS: VARIATION 8 - DATA SET 25-48

D.5.a. DEA REPRESENTATION

<i>Prdn Day</i>	<i>Deviations</i>	<i>Peers</i>	<i>Output /Inputs</i>	<i>Prdn Day</i>	<i>Deviations</i>	<i>Peers</i>
25	0 0 0 0	$\lambda_{25}^{25}=1.00$	PCF DLR RWK RML	37	0 0 0 0	$\lambda_{37}^{37}=1.00$
26	0 0 0 0	$\lambda_{26}^{26}=1.00$	PCF DLR RWK RML	38	0 0 0 0	$\lambda_{38}^{38}=1.00$
27	0 0 0 0	$\lambda_{27}^{27}=1.00$	PCF DLR RWK RML	39	0 0 0 0	$\lambda_{25}^{39}=0.04, \lambda_{35}^{39}=0.07,$ $\lambda_{37}^{39}=0.23, \lambda_{40}^{39}=0.64,$ $\lambda_{46}^{39}=0.02$
28	0 0 0 0	$\lambda_{28}^{28}=1.00$	PCF DLR RWK RML	40	0 0 0 0	$\lambda_{40}^{40}=1.00$
29	0 0 0 0	$\lambda_{29}^{29}=1.00$	PCF DLR RWK RML	41	0 0 0 0	$\lambda_{41}^{41}=1.00$
30	0 0 0 0	$\lambda_{30}^{30}=1.00$	PCF DLR RWK RML	42	0 0 0 0	$\lambda_{42}^{42}=1.00$
31	0 0 0 0	$\lambda_{25}^{31}=0.24, \lambda_{30}^{31}=0.02,$ $\lambda_{35}^{31}=0.23, \lambda_{37}^{31}=0.50,$ $\lambda_{46}^{31}=0.01$	PCF DLR RWK RML	43	0 0 0 0	$\lambda_{41}^{43}=0.04, \lambda_{42}^{43}=0.33,$ $\lambda_{44}^{43}=0.06, \lambda_{45}^{43}=0.37,$ $\lambda_{46}^{43}=0.20$
32	0 0 0 0	$\lambda_{32}^{32}=1.00$	PCF DLR RWK RML	44	0 0 0 0	$\lambda_{44}^{44}=1.00$
33	0 0 0 0	$\lambda_{25}^{33}=0.26, \lambda_{26}^{33}=0.25,$ $\lambda_{28}^{33}=0.14, \lambda_{30}^{33}=0.31,$ $\lambda_{40}^{33}=0.04$	PCF DLR RWK RML	45	0 0 0 0	$\lambda_{25}^{45}=0.11, \lambda_{28}^{45}=0.13,$ $\lambda_{41}^{45}=0.12, \lambda_{42}^{45}=0.10,$ $\lambda_{44}^{45}=0.54$
34	0 0 0 0	$\lambda_{34}^{34}=1.00$	PCF DLR RWK RML	46	0 0 0 0	$\lambda_{46}^{46}=1.00$
35	0 0 0 0	$\lambda_{35}^{35}=1.00$	PCF DLR RWK RML	47	0 0 0 0	$\lambda_{47}^{47}=1.00$
36	0 0 0 0	$\lambda_{36}^{36}=1.00$	PCF DLR RWK RML	48	0 0 0 0	$\lambda_{48}^{48}=1.00$

D.5.b. GLOBAL TARGETS

<i>Output/Inputs</i>	<i>Target</i>	<i>Achieved</i>	<i>Slack</i>	<i>Effectiveness (μ)</i>
PCF	4437142.20	4067005.44	370136.76	0.33
DLR	31219.67	39930.89	-8711.22	0.26
RWK	206598.27	264406.75	-57808.48	0.80
RML	143930.90	161295.82	-17364.92	0.87

D.6. FUZZY GODEA RESULTS: VARIATION 9 - DATA SET 25-48

D.6.a. DEA REPRESENTATION

<i>Prdn Day</i>	<i>Deviations</i>	<i>Peers</i>	<i>Output /Inputs</i>	<i>Prdn Day</i>	<i>Deviations</i>	<i>Peers</i>
25	(+)9774.99 (-)308.10 (-)1236.46 0	$\lambda_{27}^{25}=0.04,$ $\lambda_{48}^{25}=0.96$	PCF DLR RWK RML	37	0 0 0 0	$\lambda_{37}^{37}=1.00$
26	(+)50941.22 (-)210.72 0 (+)1485.435	$\lambda_{27}^{26}=0.23,$ $\lambda_{48}^{26}=0.77$	PCF DLR RWK RML	38	(+)40762.15 (-)230.40 (-)5587.00 (-)78.95	$\lambda_{37}^{38}=1.00$
27	0 0 0 0	$\lambda_{27}^{27}=1.00$	PCF DLR RWK RML	39	0 (-)290.72 (+)76.75 (-)928.99	$\lambda_{37}^{39}=0.82,$ $\lambda_{48}^{39}=0.18$
28	(+)58114.26 0 (-)3818.41 (-)442.49	$\lambda_{27}^{28}=0.49,$ $\lambda_{37}^{28}=0.51$	PCF DLR RWK RML	40	0 (-)299.66 (+)1568.75 (-)1392.92	$\lambda_{37}^{40}=0.87,$ $\lambda_{48}^{40}=0.13$
29	0 (-)339.79 0 (+)6.35	$\lambda_{27}^{29}=0.50,$ $\lambda_{37}^{29}=0.02,$ $\lambda_{48}^{29}=0.48,$	PCF DLR RWK RML	41	(-)18460.90 (-)445.20 (-)9095.00 (-)2095.99	$\lambda_{37}^{41}=1.00$
30	(+)3278.95 (-)41.6 (-)3233.00 (-)25.51	$\lambda_{37}^{30}=1.00,$	PCF DLR RWK RML	42	(-)42059.10 (-)313.60 (-)2931.97 (-)3448.48	$\lambda_{37}^{42}=1.00$
31	(+)4150.50 (-)177.01 (-)809.77 0	$\lambda_{27}^{31}=0.60,$ $\lambda_{37}^{31}=0.40$	PCF DLR RWK RML	43	(+)10907.46 (-)764.00 (-)3213.00 (-)1791.56	$\lambda_{37}^{43}=1.00$
32	(+)56116.94 0 (-)2038.44 (+)1473.77	$\lambda_{27}^{32}=0.88,$ $\lambda_{48}^{32}=0.12$	PCF DLR RWK RML	44	(+)37710.88 (-)1359.50 (-)3274.00 (-)1994	$\lambda_{37}^{44}=1.00$
33	(+)20704.89 (-)136.44 0 (+)35.80	$\lambda_{27}^{33}=0.93,$ $\lambda_{48}^{33}=0.07$	PCF DLR RWK RML	45	(+)30941.06 (-)776.80 (-)3035.00 (-)1402.57	$\lambda_{37}^{45}=1.00$
34	(+)3369.52 (-)226.20 0 (-)34.35	$\lambda_{27}^{34}=0.33,$ $\lambda_{37}^{34}=0.60,$ $\lambda_{48}^{34}=0.07$	PCF DLR RWK RML	46	(-)51684.48 (-)1470.06 (-)2852.04 0	$\lambda_{27}^{46}=0.30, \lambda_{37}^{46}=0.70$
35	(+)3612.14 (-)509.35 (-)6971.18 0	$\lambda_{27}^{35}=0.74,$ $\lambda_{37}^{35}=0.26$	PCF DLR RWK RML	47	(+)39402.76 (+)72.5 (-)5757.00 (+)1513.32	$\lambda_{48}^{47}=1.00$
36	(-)9183.24 (-)122.82 (-)5602.97 0	$\lambda_{27}^{36}=0.91,$ $\lambda_{37}^{36}=0.09$	PCF DLR RWK RML	48	0 0 0 0	$\lambda_{48}^{48}=1.00$

D.6.b. GLOBAL TARGETS

<i>Output/Inputs</i>	<i>Target</i>	<i>Achieved</i>	<i>Slack</i>	<i>Effectiveness (μ)</i>
PCF	4437142.20	4437142.20	0.00	1.00
DLR	31219.67	31981.44	-761.77	0.94
RWK	206598.27	206598.27	0.00	1.00
RML	143930.90	152525.58	-8594.68	0.94

Appendix E

FUZZY GODEA RESULTS FOR DATA SET 1-48

- E.1. FUZZY GODEA BASE MODEL RESULTS (page 245)**
- E.2. FUZZY GODEA RESULTS - VARIATION 4..... (page 248)**
- E.3. FUZZY GODEA RESULTS - VARIATION 5 (page 251)**
- E.4. FUZZY GODEA RESULTS - VARIATION 6..... (page 254)**
- E.5. FUZZY GODEA RESULTS - VARIATION 8..... (page 257)**
- E.6. FUZZY GODEA RESULTS - VARIATION 9..... (page 260)**

E.1. FUZZY GODEA RESULTS: BASE MODEL - DATA SET 1-48

E.1.a. DEA REPRESENTATION

<i>Prdn Day</i>	<i>Efficiency (μ)</i>	<i>Peers</i>	<i>Output /Inputs</i>	<i>Prdn Day</i>	<i>Efficiency (μ)</i>	<i>Peers</i>
1	1.00 1.00 1.00 1.00	$\lambda_1^1=1.00$	PCF DLR RWK RML	13	1.00 1.00 1.00 1.00	$\lambda_1^{13}=0.33, \lambda_{11}^{13}=0.30,$ $\lambda_{19}^{13}=0.16, \lambda_{21}^{13}=0.01,$ $\lambda_{22}^{13}=0.20$
2	1.00 1.00 1.00 1.00	$\lambda_1^2=0.47, \lambda_{21}^2=0.43,$ $\lambda_{22}^2=0.03, \lambda_{30}^2=0.01,$ $\lambda_{44}^2=0.06$	PCF DLR RWK RML	14	1.00 1.00 1.00 1.00	$\lambda_{14}^{14}=1.00$
3	1.00 1.00 1.00 1.00	$\lambda_3^3=1.00$	PCF DLR RWK RML	15	1.00 1.00 1.00 1.00	$\lambda_{15}^{15}=1.00$
4	1.00 1.00 1.00 1.00	$\lambda_1^4=0.47, \lambda_{11}^4=0.10,$ $\lambda_{21}^4=0.09, \lambda_{22}^4=0.32,$ $\lambda_{46}^4=0.02$	PCF DLR RWK RML	16	1.00 1.00 1.00 1.00	$\lambda_1^{16}=0.11, \lambda_{14}^{16}=0.27,$ $\lambda_{35}^{16}=0.26, \lambda_{46}^{16}=0.36$
5	1.00 1.00 1.00 1.00	$\lambda_6^5=0.21, \lambda_8^5=0.40,$ $\lambda_{11}^5=0.21, \lambda_{22}^5=0.05,$ $\lambda_{46}^5=0.13$	PCF DLR RWK RML	17	1.00 1.00 1.00 1.00	$\lambda_1^{17}=0.31, \lambda_6^{17}=0.01,$ $\lambda_{20}^{17}=0.37, \lambda_{37}^{17}=0.09,$ $\lambda_{44}^{17}=0.22$
6	1.00 1.00 1.00 1.00	$\lambda_6^6=1.00$	PCF DLR RWK RML	18	1.00 1.00 1.00 1.00	$\lambda_{14}^{18}=0.21, \lambda_{22}^{18}=0.11,$ $\lambda_{42}^{18}=0.09, \lambda_{44}^{18}=0.16$
7	1.00 1.00 1.00 1.00	$\lambda_1^7=0.19, \lambda_{22}^7=0.11,$ $\lambda_{27}^7=0.17, \lambda_{40}^7=0.49,$ $\lambda_{48}^7=0.04,$	PCF DLR RWK RML	19	1.00 1.00 1.00 1.00	$\lambda_{19}^{19}=1.00$
8	1.00 1.00 1.00 1.00	$\lambda_8^8=1.00$	PCF DLR RWK RML	20	1.00 1.00 1.00 1.00	$\lambda_1^{20}=0.15, \lambda_{14}^{20}=0.17,$ $\lambda_{22}^{20}=0.51, \lambda_{42}^{20}=0.02,$ $\lambda_{46}^{20}=0.15$
9	1.00 1.00 1.00 1.00	$\lambda_9^9=1.00$	PCF DLR RWK RML	21	1.00 1.00 1.00 1.00	$\lambda_{21}^{21}=1.00$
10	1.00 1.00 1.00 1.00	$\lambda_6^{10}=0.51, \lambda_8^{10}=0.14,$ $\lambda_{11}^{10}=0.10, \lambda_{22}^{10}=0.07,$ $\lambda_{44}^{10}=0.18$	PCF DLR RWK RML	22	1.00 1.00 1.00 1.00	$\lambda_{22}^{22}=1.00$
11	1.00 1.00 1.00 1.00	$\lambda_{11}^{11}=1.00$	PCF DLR RWK RML	23	1.00 1.00 1.00 1.00	$\lambda_6^{23}=0.82, \lambda_{21}^{23}=0.05,$ $\lambda_{39}^{23}=0.08, \lambda_{41}^{23}=0.01,$ $\lambda_{44}^{23}=0.04$
12	1.00 1.00 1.00 1.00	$\lambda_1^{12}=0.51, \lambda_{16}^{12}=0.05,$ $\lambda_{21}^{12}=0.05, \lambda_{22}^{12}=0.17,$ $\lambda_{46}^{12}=0.22$	PCF DLR RWK RML	24	1.00 1.00 1.00 1.00	$\lambda_1^{24}=0.14, \lambda_7^{24}=0.11,$ $\lambda_{16}^{24}=0.06, \lambda_{35}^{24}=0.36,$ $\lambda_{41}^{24}=0.33$

<i>Prdn Day</i>	<i>Efficiency (μ)</i>	<i>Peers</i>	<i>Output /Inputs</i>	<i>Prdn Day</i>	<i>Efficiency (μ)</i>	<i>Peers</i>
25	1.00 1.00 1.00 1.00	$\lambda_{1^{25}}=0.37, \lambda_{21^{25}}=0.15,$ $\lambda_{27^{25}}=0.03, \lambda_{29^{25}}=0.39,$ $\lambda_{37^{25}}=0.06$	PCF DLR RWK RML	37	1.00 1.00 1.00 1.00	$\lambda_{37^{37}}=1.00$
26	1.00 1.00 1.00 1.00	$\lambda_{1^{26}}=0.66, \lambda_{16^{26}}=0.10,$ $\lambda_{22^{26}}=0.17, \lambda_{46^{26}}=0.07$	PCF DLR RWK RML	38	1.00 1.00 1.00 1.00	$\lambda_{14^{38}}=0.64, \lambda_{22^{38}}=0.08,$ $\lambda_{30^{38}}=0.25, \lambda_{46^{38}}=0.03$
27	1.00 1.00 1.00 1.00	$\lambda_{27^{27}}=1.00$	PCF DLR RWK RML	39	1.00 1.00 1.00 1.00	$\lambda_{39^{39}}=1.00$
28	1.00 1.00 1.00 1.00	$\lambda_{28^{28}}=1.00$	PCF DLR RWK RML	40	1.00 1.00 1.00 1.00	$\lambda_{40^{40}}=1.00$
29	1.00 1.00 1.00 1.00	$\lambda_{29^{29}}=1.00$	PCF DLR RWK RML	41	1.00 1.00 1.00 1.00	$\lambda_{41^{41}}=1.00$
30	1.00 1.00 1.00 1.00	$\lambda_{30^{30}}=1.00$	PCF DLR RWK RML	42	1.00 1.00 1.00 1.00	$\lambda_{42^{42}}=1.00$
31	1.00 1.00 1.00 1.00	$\lambda_{1^{31}}=0.04, \lambda_{35^{31}}=0.25,$ $\lambda_{37^{31}}=0.52, \lambda_{46^{31}}=0.05,$ $\lambda_{48^{31}}=0.16$	PCF DLR RWK RML	43	1.00 1.00 1.00 1.00	$\lambda_{21^{43}}=0.02, \lambda_{34^{43}}=0.20,$ $\lambda_{41^{43}}=0.15, \lambda_{42^{43}}=0.17,$ $\lambda_{44^{43}}=0.46$
32	1.00 1.00 1.00 1.00	$\lambda_{1^{32}}=0.03, \lambda_{8^{32}}=0.15,$ $\lambda_{15^{32}}=0.38, \lambda_{47^{32}}=0.44$	PCF DLR RWK RML	44	1.00 1.00 1.00 1.00	$\lambda_{44^{44}}=1.00$
33	1.00 1.00 1.00 1.00	$\lambda_{1^{33}}=0.19, \lambda_{14^{33}}=0.07,$ $\lambda_{22^{33}}=0.11, \lambda_{27^{33}}=0.56,$ $\lambda_{46^{33}}=0.07$	PCF DLR RWK RML	45	1.00 1.00 1.00 1.00	$\lambda_{1^{45}}=0.02, \lambda_{16^{45}}=0.32,$ $\lambda_{22^{45}}=0.09, \lambda_{42^{45}}=0.18,$ $\lambda_{44^{45}}=0.39$
34	1.00 1.00 1.00 1.00	$\lambda_{34^{34}}=1.00$	PCF DLR RWK RML	46	1.00 1.00 1.00 1.00	$\lambda_{46^{46}}=1.00$
35	1.00 1.00 1.00 1.00	$\lambda_{35^{35}}=1.00$	PCF DLR RWK RML	47	1.00 1.00 1.00 1.00	$\lambda_{47^{47}}=1.00$
36	1.00 1.00 1.00 1.00	$\lambda_{36^{36}}=1.00$	PCF DLR RWK RML	48	1.00 1.00 1.00 1.00	$\lambda_{48^{48}}=1.00$

E.1.b. GLOBAL TARGETS

<i>Input/Output</i>	<i>Target</i>	<i>Achieved</i>	<i>Slack</i>	<i>Effectiveness (μ)</i>
PCF	8311444.50	7164430.69	1147013.81	0.35
DLR	54131.76	71381.11	-17249.35	0.27
RWK	273517.66	438163.38	-164645.72	0.71
RML	241759.14	298632.64	-56873.50	0.79

E.2. FUZZY GODEA RESULTS: VARIATION 4 - DATA SET 1-48

E.2.a. DEA REPRESENTATION

<i>Prdn Day</i>	<i>Efficiency (μ)</i>	<i>Peers</i>	<i>Output /Inputs</i>	<i>Prdn Day</i>	<i>Efficiency (μ)</i>	<i>Peers</i>
1	1.00 1.00 1.00 1.00	$\lambda_1^1=1.00$	PCF DLR RWK RML	13	1.00 1.00 1.00 1.00	$\lambda_3^{13}=0.17, \lambda_8^{13}=0.25,$ $\lambda_{11}^{13}=0.48, \lambda_{12}^{13}=0.01,$ $\lambda_{20}^{13}=0.09$
2	1.00 1.00 1.00 1.00	$\lambda_1^2=0.36, \lambda_{12}^2=0.20,$ $\lambda_{21}^2=0.44$	PCF DLR RWK RML	14	1.00 1.00 1.00 1.00	$\lambda_{14}^{14}=1.00$
3	1.00 1.00 1.00 1.00	$\lambda_3^3=1.00$	PCF DLR RWK RML	15	1.00 1.00 1.00 1.00	$\lambda_{15}^{15}=1.00$
4	1.00 1.00 1.00 1.00	$\lambda_1^4=0.48, \lambda_{11}^4=0.08,$ $\lambda_{21}^4=0.09, \lambda_{22}^4=0.32,$ $\lambda_{46}^4=0.02$	PCF DLR RWK RML	16	1.00 1.00 1.00 1.00	$\lambda_1^{16}=0.11, \lambda_{14}^{16}=0.27,$ $\lambda_{35}^{16}=0.26, \lambda_{46}^{16}=0.36$
5	1.00 1.00 1.00 1.00	$\lambda_1^5=0.04, \lambda_8^5=0.42,$ $\lambda_{11}^5=0.35, \lambda_{21}^5=0.07,$ $\lambda_{46}^5=0.12$	PCF DLR RWK RML	17	1.00 1.00 1.00 1.00	$\lambda_1^{17}=0.37, \lambda_{16}^{17}=0.08,$ $\lambda_{22}^{17}=0.23, \lambda_{42}^{17}=0.10,$ $\lambda_{46}^{17}=0.22$
6	1.00 1.00 1.00 1.00	$\lambda_6^6=1.00$	PCF DLR RWK RML	18	1.00 1.00 1.00 1.00	$\lambda_1^{18}=0.40, \lambda_{21}^{18}=0.07,$ $\lambda_{22}^{18}=0.07, \lambda_{38}^{18}=0.31,$ $\lambda_{44}^{18}=0.15$
7	1.00 1.00 1.00 1.00	$\lambda_1^7=0.29, \lambda_{21}^7=0.32,$ $\lambda_{37}^7=0.30, \lambda_{40}^7=0.05,$ $\lambda_{46}^7=0.04$	PCF DLR RWK RML	19	1.00 1.00 1.00 1.00	$\lambda_{19}^{19}=1.00$
8	1.00 1.00 1.00 1.00	$\lambda_8^8=1.00$	PCF DLR RWK RML	20	1.00 1.00 1.00 1.00	$\lambda_8^{20}=0.17, \lambda_{14}^{20}=0.16,$ $\lambda_{22}^{20}=0.45, \lambda_{42}^{20}=0.05,$ $\lambda_{46}^{20}=0.17$
9	1.00 1.00 1.00 1.00	$\lambda_9^9=1.00$	PCF DLR RWK RML	21	1.00 1.00 1.00 1.00	$\lambda_{21}^{21}=1.00$
10	1.00 1.00 1.00 1.00	$\lambda_1^{10}=0.21, \lambda_{11}^{10}=0.53,$ $\lambda_{21}^{10}=0.11, \lambda_{22}^{10}=0.01,$ $\lambda_{44}^{10}=0.14$	PCF DLR RWK RML	22	1.00 1.00 1.00 1.00	$\lambda_{22}^{22}=1.00$
11	1.00 1.00 1.00 1.00	$\lambda_{11}^{11}=1.00$	PCF DLR RWK RML	23	1.00 1.00 1.00 1.00	$\lambda_1^{23}=0.08, \lambda_6^{23}=0.71,$ $\lambda_{21}^{23}=0.10, \lambda_{40}^{23}=0.08,$ $\lambda_{44}^{23}=0.03$
12	1.00 1.00 1.00 1.00	$\lambda_1^{12}=0.54, \lambda_{16}^{12}=0.07,$ $\lambda_{22}^{12}=0.15, \lambda_{42}^{12}=0.01,$ $\lambda_{44}^{12}=0.23$	PCF DLR RWK RML	24	1.00 1.00 1.00 1.00	$\lambda_1^{24}=0.13, \lambda_{16}^{24}=0.08,$ $\lambda_{25}^{24}=0.11, \lambda_{35}^{24}=0.30,$ $\lambda_{44}^{24}=0.38$

<i>Prdn Day</i>	<i>Efficiency (μ)</i>	<i>Peers</i>	<i>Output /Inputs</i>	<i>Prdn Day</i>	<i>Efficiency (μ)</i>	<i>Peers</i>
25	1.00 1.00 1.00 1.00	$\lambda_{1^{25}}=0.47, \lambda_{21^{25}}=0.14,$ $\lambda_{34^{25}}=0.18, \lambda_{37^{25}}=0.10,$ $\lambda_{40^{25}}=0.11$	PCF DLR RWK RML	37	1.00 1.00 1.00 1.00	$\lambda_{37^{37}}=1.00$
26	1.00 1.00 1.00 1.00	$\lambda_{1^{26}}=0.66, \lambda_{16^{26}}=0.10,$ $\lambda_{22^{26}}=0.17, \lambda_{46^{26}}=0.07$	PCF DLR RWK RML	38	1.00 1.00 1.00 1.00	$\lambda_{14^{38}}=0.32, \lambda_{28^{38}}=0.13,$ $\lambda_{41^{38}}=0.30, \lambda_{44^{38}}=0.10,$ $\lambda_{47^{38}}=0.15$
27	1.00 1.00 1.00 1.00	$\lambda_{27^{27}}=1.00$	PCF DLR RWK RML	39	1.00 1.00 1.00 1.00	$\lambda_{1^{39}}=0.02, \lambda_{21^{39}}=0.05,$ $\lambda_{37^{39}}=0.40, \lambda_{40^{39}}=0.47,$ $\lambda_{46^{39}}=0.06$
28	1.00 1.00 1.00 1.00	$\lambda_{28^{28}}=1.00$	PCF DLR RWK RML	40	1.00 1.00 1.00 1.00	$\lambda_{40^{40}}=1.00$
29	1.00 1.00 1.00 1.00	$\lambda_{29^{29}}=1.00$	PCF DLR RWK RML	41	1.00 1.00 1.00 1.00	$\lambda_{41^{41}}=1.00$
30	1.00 1.00 1.00 1.00	$\lambda_{30^{30}}=1.00$	PCF DLR RWK RML	42	1.00 1.00 1.00 1.00	$\lambda_{42^{42}}=1.00$
31	1.00 1.00 1.00 1.00	$\lambda_{1^{31}}=0.14, \lambda_{16^{31}}=0.10,$ $\lambda_{35^{31}}=0.04, \lambda_{37^{31}}=0.61,$ $\lambda_{47^{31}}=0.11$	PCF DLR RWK RML	43	1.00 1.00 1.00 1.00	$\lambda_{21^{43}}=0.02, \lambda_{34^{43}}=0.20,$ $\lambda_{41^{43}}=0.15, \lambda_{42^{43}}=0.17,$ $\lambda_{44^{43}}=0.46$
32	1.00 1.00 1.00 1.00	$\lambda_{1^{32}}=0.03, \lambda_{8^{32}}=0.15,$ $\lambda_{15^{32}}=0.38, \lambda_{47^{32}}=0.44$	PCF DLR RWK RML	44	1.00 1.00 1.00 1.00	$\lambda_{44^{44}}=1.00$
33	1.00 1.00 1.00 1.00	$\lambda_{1^{33}}=0.33, \lambda_{3^{33}}=0.10,$ $\lambda_{15^{33}}=0.23, \lambda_{22^{33}}=0.01,$ $\lambda_{42^{33}}=0.33$	PCF DLR RWK RML	45	1.00 1.00 1.00 1.00	$\lambda_{1^{45}}=0.02, \lambda_{16^{45}}=0.32,$ $\lambda_{22^{45}}=0.09, \lambda_{42^{45}}=0.18,$ $\lambda_{44^{45}}=0.39$
34	1.00 1.00 1.00 1.00	$\lambda_{34^{34}}=1.00$	PCF DLR RWK RML	46	1.00 1.00 1.00 1.00	$\lambda_{46^{46}}=1.00$
35	1.00 1.00 1.00 1.00	$\lambda_{35^{35}}=1.00$	PCF DLR RWK RML	47	1.00 1.00 1.00 1.00	$\lambda_{47^{47}}=1.00$
36	1.00 1.00 1.00 1.00	$\lambda_{36^{36}}=1.00$	PCF DLR RWK RML	48	1.00 1.00 1.00 1.00	$\lambda_{48^{48}}=1.00$

E.2.b. GLOBAL TARGETS

<i>Input/Output</i>	<i>Target</i>	<i>Achieved</i>	<i>Slack</i>	<i>Possible</i>
PCF	6554645.90	7164493.00	-609847.10	Increase
DLR	77761.00	71381.00	6380.00	Decrease
RWK	831828.00	438174.00	393654.00	Decrease
RML	518381.24	298628.90	219752.34	Decrease

E.3. FUZZY GODEA RESULTS: VARIATION 5 - DATA SET 1-48

E.3.a. DEA REPRESENTATION

<i>Prdn Day</i>	<i>Slacks</i>	<i>Peers</i>	<i>Output /Inputs</i>	<i>Prdn Day</i>	<i>Slacks</i>	<i>Peers</i>
1	0 0 0 0	$\lambda_1^1=1.00$	PCF DLR RWK RML	13	-38963 54 840 4	$\lambda_{48}^{13}=1.00$
2	-5919 421 1997 1224	$\lambda_{48}^2=1.00$	PCF DLR RWK RML	14	-40260 422 8634 0	$\lambda_{37}^{14}=0.76, \lambda_{48}^{14}=0.24$
3	-5231 0 2349 4230	$\lambda_{19}^3=0.44, \lambda_{48}^3=0.56$	PCF DLR RWK RML	15	-8203 916 12361 540	$\lambda_{48}^{15}=1.00$
4	-45496 82 0 289	$\lambda_{37}^4=0.36, \lambda_{48}^4=0.64$	PCF DLR RWK RML	16	-14181 1046 8562 0	$\lambda_{42}^{16}=0.15, \lambda_{48}^{16}=0.85$
5	-35775 275 1127 0	$\lambda_1^5=0.07, \lambda_{48}^5=0.93$	PCF DLR RWK RML	17	-11318 752 4970 1136	$\lambda_{48}^{17}=1.00$
6	0 0 0 0	$\lambda_6^6=1.00$	PCF DLR RWK RML	18	-15350 613 5154 480	$\lambda_{48}^{18}=1.00$
7	-13161 199 0 559	$\lambda_{37}^7=0.53, \lambda_{48}^7=0.47$	PCF DLR RWK RML	19	0 0 0 0	$\lambda_{19}^{19}=1.00$
8	-29058 0 598 0	$\lambda_1^8=0.46, \lambda_{19}^8=0.14,$ $\lambda_{48}^8=0.40$	PCF DLR RWK RML	20	-4785 734 7321 3418	$\lambda_{37}^{20}=0.19, \lambda_{48}^{20}=0.81$
9	-1285 0 0 1463	$\lambda_1^9=0.62, \lambda_6^9=0.05,$ $\lambda_{48}^9=0.33$ 1	PCF DLR RWK RML	21	0 93 0 2815	$\lambda_{40}^{21}=0.38, \lambda_{42}^{21}=0.43,$ $\lambda_{48}^{21}=0.19$
10	-22764 390 1300 697	$\lambda_{48}^{10}=1.00$	PCF DLR RWK RML	22	0 468 6580 6442	$\lambda_{37}^{22}=0.51, \lambda_{48}^{22}=0.49$
11	-27019 88 0 581	$\lambda_6^{11}=0.16, \lambda_{48}^{11}=0.84$	PCF DLR RWK RML	23	-9424 186 0 400	$\lambda_6^{23}=0.22, \lambda_{48}^{23}=0.78$
12	-27930 599 3021 0	$\lambda_1^{12}=0.04, \lambda_{48}^{12}=0.96$	PCF DLR RWK RML	24	-11314 389 6036 0	$\lambda_{37}^{24}=0.66, \lambda_{48}^{24}=0.34$

<i>Prdn Day</i>	<i>Slacks</i>	<i>Peers</i>	<i>Output /Inputs</i>	<i>Prdn Day</i>	<i>Slacks</i>	<i>Peers</i>
25	-2865 333 1715 0	$\lambda_1^{25}=0.07, \lambda_{48}^{25}=0.93$	PCF DLR RWK RML	37	0 0 0 0	$\lambda_{37}^{37}=1.00$
26	-20982 332 2279 0	$\lambda_1^{26}=0.31, \lambda_{48}^{26}=0.39$	PCF DLR RWK RML	38	-40762 230 5587 79	$\lambda_{37}^{38}=1.00$
27	0 0 0 0	$\lambda_{27}^{27}=1.00$	PCF DLR RWK RML	39	296 0 838	$\lambda_{37}^{39}=0.74, \lambda_{42}^{39}=0.05,$ $\lambda_{48}^{39}=0.21$
28	-14830 473 9978 1810	$\lambda_{48}^{28}=1.00$	PCF DLR RWK RML	40	0 0 0 0	$\lambda_{40}^{40}=1.00$
29	0 332 1028 0	$\lambda_1^{29}=0.07, \lambda_{37}^{29}=0.33,$ $\lambda_{48}^{29}=0.60$	PCF DLR RWK RML	41	0 308 7808 582	$\lambda_{37}^{41}=0.56, \lambda_{42}^{41}=0.44$
30	-3279 42 3233 26	$\lambda_{37}^{30}=1.00$	PCF DLR RWK RML	42	0 0 0 0	$\lambda_{42}^{42}=1.00$
31	-223 262 2924 0	$\lambda_{37}^{31}=0.60, \lambda_{48}^{31}=0.40$	PCF DLR RWK RML	43	-10907 764 3213 1792	$\lambda_{37}^{43}=1.00$
32	-17241 326 7675 0	$\lambda_1^{32}=0.21, \lambda_{48}^{32}=0.79$	PCF DLR RWK RML	44	-37711 1360 3274 1994	$\lambda_{37}^{44}=1.00$
33	-13525 280 3417 0	$\lambda_{37}^{33}=0.29, \lambda_{48}^{33}=0.71$	PCF DLR RWK RML	45	0 1088 6443 2459	$\lambda_{37}^{45}=0.48, \lambda_{48}^{45}=0.52$
34	-2192 263 1065 0	$\lambda_{37}^{34}=0.72, \lambda_{48}^{34}=0.28$	PCF DLR RWK RML	46	-1752 1995 9187 1639	$\lambda_{48}^{46}=1.00$
35	0 585 9327 0	$\lambda_1^{35}=0.02, \lambda_{37}^{35}=0.56,$ $\lambda_{48}^{35}=0.42$	PCF DLR RWK RML	47	-10399 0 6797 0	$\lambda_1^{47}=0.33, \lambda_{19}^{47}=0.05,$ $\lambda_{48}^{47}=0.62$
36	-3156 253 8848 0	$\lambda_{37}^{36}=0.38, \lambda_{48}^{36}=0.62$	PCF DLR RWK RML	48	-2380 0 0 0	$\lambda_{48}^{48}=1.00$

E.3.b. GLOBAL TARGETS

<i>Input/Output</i>	<i>Target</i>	<i>Achieved</i>	<i>Slack</i>	<i>Effectiveness (μ)</i>
PCF	8311444.50	7711673.46	599771.04	0.66
DLR	54131.76	54131.76	0.00	1.00
RWK	273517.66	273517.66	0.00	1.00
RML	241759.14	265880.59	-24121.45	0.91

E.4. FUZZY GODEA RESULTS: VARIATION 6 - DATA SET 1-48

E.4.a. DEA REPRESENTATION

<i>Prdn Day</i>	<i>Efficiency (μ)</i>	<i>Peers</i>	<i>Output /Inputs</i>	<i>Prdn Day</i>	<i>Efficiency (μ)</i>	<i>Peers</i>
1	1.00 1.00 1.00 1.00	$\lambda_1^1=1.00$	PCF DLR RWK RML	13	1.00 1.00 1.00 1.00	$\lambda_1^{13}=0.32, \lambda_2^{13}=0.02,$ $\lambda_{11}^{13}=0.31, \lambda_{19}^{13}=0.16,$ $\lambda_{22}^{13}=0.19$
2	1.00 1.00 1.00 1.00	$\lambda_2^2=1.00$	PCF DLR RWK RML	14	1.00 1.00 1.00 1.00	$\lambda_{14}^{14}=1.00$
3	1.00 1.00 1.00 1.00	$\lambda_3^3=1.00$	PCF DLR RWK RML	15	1.00 1.00 1.00 1.00	$\lambda_{15}^{15}=1.00$
4	1.00 1.00 1.00 1.00	$\lambda_1^4=0.35, \lambda_2^4=0.22,$ $\lambda_5^4=0.06, \lambda_{11}^4=0.07,$ $\lambda_{22}^4=0.30$	PCF DLR RWK RML	16	1.00 1.00 1.00 1.00	$\lambda_1^{16}=0.11, \lambda_{15}^{16}=0.30,$ $\lambda_{35}^{16}=0.15, \lambda_{41}^{16}=0.10,$ $\lambda_{46}^{16}=0.34$
5	1.00 1.00 1.00 1.00	$\lambda_1^5=0.17, \lambda_8^5=0.23,$ $\lambda_{11}^5=0.42, \lambda_{22}^5=0.07,$ $\lambda_{46}^5=0.11$	PCF DLR RWK RML	17	1.00 1.00 1.00 1.00	$\lambda_1^{17}=0.18, \lambda_2^{17}=0.33,$ $\lambda_{28}^{17}=0.20, \lambda_{30}^{17}=0.02,$ $\lambda_{44}^{17}=0.27$
6	1.00 1.00 1.00 1.00	$\lambda_6^6=1.00$	PCF DLR RWK RML	18	1.00 1.00 1.00 1.00	$\lambda_1^{18}=0.44, \lambda_{22}^{18}=0.17,$ $\lambda_{28}^{18}=0.04, \lambda_{41}^{18}=0.18,$ $\lambda_{46}^{18}=0.17$
7	1.00 1.00 1.00 1.00	$\lambda_1^7=0.38, \lambda_{21}^7=0.21,$ $\lambda_{40}^7=0.08, \lambda_{42}^7=0.30,$ $\lambda_{46}^7=0.03$	PCF DLR RWK RML	19	1.00 1.00 1.00 1.00	$\lambda_{19}^{19}=1.00$
8	1.00 1.00 1.00 1.00	$\lambda_8^8=1.00$	PCF DLR RWK RML	20	1.00 1.00 1.00 1.00	$\lambda_1^{20}=0.14, \lambda_{15}^{20}=0.21,$ $\lambda_{22}^{20}=0.49, \lambda_{43}^{20}=0.03,$ $\lambda_{44}^{20}=0.13$
9	1.00 1.00 1.00 1.00	$\lambda_9^9=1.00$	PCF DLR RWK RML	21	1.00 1.00 1.00 1.00	$\lambda_{21}^{21}=1.00$
10	1.00 1.00 1.00 1.00	$\lambda_1^{10}=0.03, \lambda_2^{10}=0.20,$ $\lambda_{11}^{10}=0.63, \lambda_{40}^{10}=0.02,$ $\lambda_{46}^{10}=0.12$	PCF DLR RWK RML	22	1.00 1.00 1.00 1.00	$\lambda_{22}^{22}=1.00$
11	1.00 1.00 1.00 1.00	$\lambda_{11}^{11}=1.00$	PCF DLR RWK RML	23	1.00 1.00 1.00 1.00	$\lambda_6^{23}=0.62, \lambda_9^{23}=0.16,$ $\lambda_{21}^{23}=0.05, \lambda_{40}^{23}=0.15,$ $\lambda_{46}^{23}=0.02$
12	1.00 1.00 1.00 1.00	$\lambda_1^{12}=0.52, \lambda_2^{12}=0.05,$ $\lambda_{14}^{12}=0.05, \lambda_{22}^{12}=0.12,$ $\lambda_{44}^{12}=0.26$	PCF DLR RWK RML	24	1.00 1.00 1.00 1.00	$\lambda_1^{24}=0.22, \lambda_{31}^{24}=0.03,$ $\lambda_{35}^{24}=0.24, \lambda_{41}^{24}=0.47,$ $\lambda_{46}^{24}=0.04$

<i>Prdn Day</i>	<i>Efficiency (μ)</i>	<i>Peers</i>	<i>Output /Inputs</i>	<i>Prdn Day</i>	<i>Efficiency (μ)</i>	<i>Peers</i>
25	1.00 1.00 1.00 1.00	$\lambda_1^{25}=0.37, \lambda_2^{25}=0.25,$ $\lambda_{37}^{25}=0.22, \lambda_{40}^{25}=0.16,$	PCF DLR RWK RML	37	1.00 1.00 1.00 1.00	$\lambda_{37}^{37}=1.00$
26	1.00 1.00 1.00 1.00	$\lambda_1^{26}=0.63, \lambda_2^{26}=0.07,$ $\lambda_{14}^{26}=0.07, \lambda_{22}^{26}=0.14$ $\lambda_{46}^{26}=0.09$	PCF DLR RWK RML	38	1.00 1.00 1.00 1.00	$\lambda_{15}^{38}=0.41, \lambda_{22}^{38}=0.11,$ $\lambda_{36}^{38}=0.26, \lambda_{41}^{38}=0.16,$ $\lambda_{45}^{38}=0.06$
27	1.00 1.00 1.00 1.00	$\lambda_{27}^{27}=1.00$	PCF DLR RWK RML	39	1.00 1.00 1.00 1.00	$\lambda_2^{39}=0.05, \lambda_{21}^{39}=0.02,$ $\lambda_{37}^{39}=0.39, \lambda_{40}^{39}=0.48,$ $\lambda_{46}^{39}=0.06$
28	1.00 1.00 1.00 1.00	$\lambda_{28}^{28}=1.00$	PCF DLR RWK RML	40	1.00 1.00 1.00 1.00	$\lambda_{40}^{40}=1.00$
29	1.00 1.00 1.00 1.00	$\lambda_{29}^{29}=1.00$	PCF DLR RWK RML	41	1.00 1.00 1.00 1.00	$\lambda_{41}^{41}=1.00$
30	1.00 1.00 1.00 1.00	$\lambda_{30}^{30}=1.00$	PCF DLR RWK RML	42	1.00 1.00 1.00 1.00	$\lambda_{42}^{42}=1.00$
31	1.00 1.00 1.00 1.00	$\lambda_1^{31}=0.16, \lambda_{35}^{31}=0.07,$ $\lambda_{37}^{31}=0.58, \lambda_{41}^{31}=0.15,$ $\lambda_{46}^{31}=0.04$	PCF DLR RWK RML	43	1.00 1.00 1.00 1.00	$\lambda_{21}^{43}=0.02, \lambda_{34}^{43}=0.20,$ $\lambda_{41}^{43}=0.15, \lambda_{42}^{43}=0.17,$ $\lambda_{44}^{43}=0.46$
32	1.00 1.00 1.00 1.00	$\lambda_1^{32}=0.07, \lambda_8^{32}=0.10,$ $\lambda_{15}^{32}=0.36, \lambda_{28}^{32}=0.05,$ $\lambda_{47}^{32}=0.42$	PCF DLR RWK RML	44	1.00 1.00 1.00 1.00	$\lambda_{44}^{44}=1.00$
33	1.00 1.00 1.00 1.00	$\lambda_1^{33}=0.46, \lambda_{21}^{33}=0.17,$ $\lambda_{30}^{33}=0.01, \lambda_{41}^{33}=0.36$	PCF DLR RWK RML	45	1.00 1.00 1.00 1.00	$\lambda_2^{45}=0.04, \lambda_{15}^{45}=0.06,$ $\lambda_{22}^{45}=0.08, \lambda_{30}^{45}=0.27,$ $\lambda_{44}^{45}=0.55$
34	1.00 1.00 1.00 1.00	$\lambda_{34}^{34}=1.00$	PCF DLR RWK RML	46	1.00 1.00 1.00 1.00	$\lambda_{46}^{46}=1.00$
35	1.00 1.00 1.00 1.00	$\lambda_{35}^{35}=1.00$	PCF DLR RWK RML	47	1.00 1.00 1.00 1.00	$\lambda_{47}^{47}=1.00$
36	1.00 1.00 1.00 1.00	$\lambda_{36}^{36}=1.00$	PCF DLR RWK RML	48	1.00 1.00 1.00 1.00	$\lambda_{11}^{48}=0.04, \lambda_{19}^{48}=0.01,$ $\lambda_{48}^{48}=0.95$

E.4.b. GLOBAL TARGETS

<i>Input/Output</i>	<i>Target</i>	<i>Achieved</i>	<i>Deviations</i>	
PCF	6554645.90	7162113.20	607467.30	PPCF
DLR	77761.00	71381.00	6380.00	NDLR
RWK	831828.00	438174.00	393654.00	NRWK
RML	518381.24	298628.94	219752.30	NRML

E.5. FUZZY GODEA RESULTS: VARIATION 8 - DATA SET 1-48

E.5.a. DEA REPRESENTATION

<i>Prdn Day</i>	<i>Deviations</i>	<i>Peers</i>	<i>Output /Input</i>	<i>Prdn Day</i>	<i>Deviations</i>	<i>Peers</i>
1	0 0 0 0	$\lambda_1^1=1.00$	PCF DLR RWK RML	13	0 0 0 0	$\lambda_1^{13}=0.32, \lambda_2^{13}=0.02,$ $\lambda_{11}^{13}=0.31, \lambda_{19}^{13}=0.16,$ $\lambda_{22}^{13}=0.19$
2	0 0 0 0	$\lambda_2^2=1.00$	PCF DLR RWK RML	14	0 0 0 0	$\lambda_{14}^{14}=1.00$
3	0 0 0 0	$\lambda_3^3=1.00$	PCF DLR RWK RML	15	0 0 0 0	$\lambda_{15}^{15}=1.00$
4	0 0 0 0	$\lambda_1^4=0.35, \lambda_2^4=0.22,$ $\lambda_5^4=0.06, \lambda_{11}^4=0.07,$ $\lambda_{22}^4=0.30$	PCF DLR RWK RML	16	0 0 0 0	$\lambda_1^{16}=0.11, \lambda_{15}^{16}=0.30,$ $\lambda_{35}^{16}=0.15, \lambda_{41}^{16}=0.10,$ $\lambda_{46}^{16}=0.34$
5	0 0 0 0	$\lambda_1^5=0.17, \lambda_8^5=0.23,$ $\lambda_{11}^5=0.42, \lambda_{22}^5=0.07,$ $\lambda_{46}^5=0.11$	PCF DLR RWK RML	17	0 0 0 0	$\lambda_1^{17}=0.18, \lambda_2^{17}=0.33,$ $\lambda_{28}^{17}=0.20, \lambda_{30}^{17}=0.02,$ $\lambda_{44}^{17}=0.27$
6	0 0 0 0	$\lambda_6^6=1.00$	PCF DLR RWK RML	18	0 0 0 0	$\lambda_1^{18}=0.44, \lambda_{22}^{18}=0.17,$ $\lambda_{28}^{18}=0.04, \lambda_{41}^{18}=0.18,$ $\lambda_{46}^{18}=0.17$
7	0 0 0 0	$\lambda_1^7=0.20, \lambda_{19}^7=0.10,$ $\lambda_{21}^7=0.10, \lambda_{40}^7=0.51,$ $\lambda_{41}^7=0.09$	PCF DLR RWK RML	19	0 0 0 0	$\lambda_{19}^{19}=1.00$
8	0 0 0 0	$\lambda_8^8=1.00$	PCF DLR RWK RML	20	0 0 0 0	$\lambda_1^{20}=0.14, \lambda_{15}^{20}=0.21,$ $\lambda_{22}^{20}=0.49, \lambda_{43}^{20}=0.03,$ $\lambda_{44}^{20}=0.13$
9	0 0 0 0	$\lambda_9^9=1.00$	PCF DLR RWK RML	21	0 0 0 0	$\lambda_{21}^{21}=1.00$
10	0 0 0 0	$\lambda_1^{10}=0.03, \lambda_2^{10}=0.20,$ $\lambda_{11}^{10}=0.63, \lambda_{40}^{10}=0.02,$ $\lambda_{46}^{10}=0.12$	PCF DLR RWK RML	22	0 0 0 0	$\lambda_{22}^{22}=1.00$
11	0 0 0 0	$\lambda_{11}^{11}=1.00$	PCF DLR RWK RML	23	0 0 0 0	$\lambda_6^{23}=0.77, \lambda_{21}^{23}=0.08,$ $\lambda_{40}^{23}=0.04, \lambda_{46}^{23}=0.05$ $\lambda_{48}^{23}=0.06$
12	0 0 0 0	$\lambda_1^{12}=0.52, \lambda_2^{12}=0.05,$ $\lambda_{14}^{12}=0.05, \lambda_{22}^{12}=0.12,$ $\lambda_{44}^{12}=0.26$	PCF DLR RWK RML	24	0 0 0 0	$\lambda_2^{24}=0.16, \lambda_{19}^{24}=0.03,$ $\lambda_{35}^{24}=0.72, \lambda_{42}^{24}=0.09,$

<i>Prdn Day</i>	<i>Deviations</i>	<i>Peers</i>	<i>Output /Inputs</i>	<i>Prdn Day</i>	<i>Deviations</i>	<i>Peers</i>
25	0 0 0 0	$\lambda_1^{25}=0.37, \lambda_2^{25}=0.25,$ $\lambda_{37}^{25}=0.22, \lambda_{40}^{25}=0.16$	PCF DLR RWK RML	37	0 0 0 0	$\lambda_{37}^{37}=1.00$
26	0 0 0 0	$\lambda_1^{26}=0.63, \lambda_2^{26}=0.07,$ $\lambda_{14}^{26}=0.07, \lambda_{22}^{26}=0.14$ $\lambda_{46}^{26}=0.09$	PCF DLR RWK RML	38	0 0 0 0	$\lambda_{15}^{38}=0.41, \lambda_{22}^{38}=0.11,$ $\lambda_{36}^{38}=0.26, \lambda_{41}^{38}=0.16,$ $\lambda_{45}^{38}=0.06$
27	0 0 0 0	$\lambda_{27}^{27}=1.00$	PCF DLR RWK RML	39	0 0 0 0	$\lambda_2^{39}=0.05, \lambda_{21}^{39}=0.02,$ $\lambda_{37}^{39}=0.39, \lambda_{40}^{39}=0.48,$ $\lambda_{46}^{39}=0.06$
28	0 0 0 0	$\lambda_{28}^{28}=1.00$	PCF DLR RWK RML	40	0 0 0 0	$\lambda_{40}^{40}=1.00$
29	0 0 0 0	$\lambda_{29}^{29}=1.00$	PCF DLR RWK RML	41	0 0 0 0	$\lambda_{41}^{41}=1.00$
30	0 0 0 0	$\lambda_{30}^{30}=1.00$	PCF DLR RWK RML	42	0 0 0 0	$\lambda_{42}^{42}=1.00$
31	0 0 0 0	$\lambda_1^{31}=0.16, \lambda_{35}^{31}=0.07,$ $\lambda_{37}^{31}=0.58, \lambda_{41}^{31}=0.15,$ $\lambda_{46}^{31}=0.04$	PCF DLR RWK RML	43	0 0 0 0	$\lambda_1^{43}=0.03, \lambda_{35}^{43}=0.15,$ $\lambda_{42}^{43}=0.36, \lambda_{44}^{43}=0.45,$ $\lambda_{46}^{43}=0.01$
32	0 0 0 0	$\lambda_1^{32}=0.07, \lambda_8^{32}=0.10,$ $\lambda_{15}^{32}=0.36, \lambda_{28}^{32}=0.05,$ $\lambda_{47}^{32}=0.42$	PCF DLR RWK RML	44	0 0 0 0	$\lambda_{44}^{44}=1.00$
33	0 0 0 0	$\lambda_1^{33}=0.46, \lambda_{21}^{33}=0.17,$ $\lambda_{30}^{33}=0.01, \lambda_{41}^{33}=0.36$	PCF DLR RWK RML	45	0 0 0 0	$\lambda_2^{45}=0.04, \lambda_{15}^{45}=0.06,$ $\lambda_{22}^{45}=0.08, \lambda_{30}^{45}=0.27,$ $\lambda_{44}^{45}=0.55$
34	0 0 0 0	$\lambda_{34}^{34}=1.00$	PCF DLR RWK RML	46	0 0 0 0	$\lambda_{46}^{46}=1.00$
35	0 0 0 0	$\lambda_{35}^{35}=1.00$	PCF DLR RWK RML	47	0 0 0 0	$\lambda_{47}^{47}=1.00$
36	0 0 0 0	$\lambda_{36}^{36}=1.00$	PCF DLR RWK RML	48	0 0 0 0	$\lambda_1^{48}=0.02, \lambda_6^{48}=0.03,$ $\lambda_{19}^{48}=0.02, \lambda_{21}^{48}=0.02,$ $\lambda_{48}^{48}=0.91$

E.5.b. GLOBAL TARGETS

<i>Input/Output</i>	<i>Target</i>	<i>Achieved</i>	<i>Slack</i>	<i>Effectiveness (μ)</i>
PCF	8311444.50	7162146.86	1149297.64	0.35
DLR	54131.76	71381.11	-17249.35	0.27
RWK	273517.66	438163.38	-164645.72	0.71
RML	241759.14	298632.64	-56873.50	0.79

E.6. FUZZY GODEA RESULTS: VARIATION 9 - DATA SET 1-48

E.6.a. DEA REPRESENTATION

<i>Prdn Day</i>	<i>Deviations</i>	<i>Peers</i>	<i>Output /Input</i>	<i>Prdn Day</i>	<i>Deviations</i>	<i>Peers</i>
1	(+)83909 (+)149 (+)3339 (+)4676	$\lambda_{48}^1=1.00$	PCF DLR RWK RML	13	(+)38963 (-)54 (-)840 (-)4	$\lambda_{48}^{13}=1.00$
2	(+)5919 (-)421 (-)1997 (-)1224	$\lambda_{48}^2=1.00$	PCF DLR RWK RML	14	0 (-)827 (-)13068 (-)1375	$\lambda_{37}^{14}=0.09, \lambda_{48}^{14}=0.91$
3	(+)33575 (+)236 (-)2224 (+)241	$\lambda_{48}^3=1.00$	PCF DLR RWK RML	15	(+)8203 (-)916 (-)12361 (-)540	$\lambda_{48}^{15}=1.00$
4	(+)23961 (-)299 (-)2372 (-)1025	$\lambda_{48}^4=1.00$	PCF DLR RWK RML	16	(+)101339 (-)263 (-)416 (+)4697	$\lambda_{42}^{16}=1.00$
5	(+)41211 (-)265 (-)911 (+)303	$\lambda_{48}^5=1.00$	PCF DLR RWK RML	17	(+)11318 (-)752 (-)4970 (-)1136	$\lambda_{48}^{17}=1.00$
6	(+)29995 (+)11 (+)1933 (+)543	$\lambda_{48}^6=1.00$	PCF DLR RWK RML	18	(+)15350 (-)613 (-)5154 (-)480	$\lambda_{48}^{18}=1.00$
7	0 (-)331 (-)1450 (-)1009	$\lambda_{37}^7=0.31, \lambda_{48}^7=0.69$	PCF DLR RWK RML	19	(+)63783 (+)531 (+)282 (+)1509	$\lambda_{48}^{19}=1.00$
8	(+)74025 (+)139 (+)873 (+)2218	$\lambda_{48}^8=1.00$	PCF DLR RWK RML	20	0 (-)782 (-)7848 (-)3581	$\lambda_{37}^{20}=0.11, \lambda_{48}^{20}=0.89$
9	(+)51129 (+)86 (+)2023 (+)1254	$\lambda_{48}^9=1.00$	PCF DLR RWK RML	21	(-)4092 (-)200 (+)883 (-)4357	$\lambda_{37}^{21}=1.00$
10	(+)22764 (-)390 (-)1300 (-)697	$\lambda_{48}^{10}=1.00$	PCF DLR RWK RML	22	(+)29427 (-)172 (-)3339 (-)5437	$\lambda_{37}^{22}=1.00$
11	(+)31799 (-)87 (+)308 (-)495	$\lambda_{48}^{11}=1.00$	PCF DLR RWK RML	23	(+)16143 (-)184 (+)433 (-)279	$\lambda_{48}^{23}=1.00$
12	(+)31012 (-)593 (-)2898 (+)172	$\lambda_{48}^{12}=1.00$	PCF DLR RWK RML	24	0 (-)502 (-)7282 (-)386	$\lambda_{37}^{24}=0.47, \lambda_{48}^{24}=0.53$

<i>Prdn Day</i>	<i>Deviations</i>	<i>Peers</i>	<i>Output /Inputs</i>	<i>Prdn Day</i>	<i>Deviations</i>	<i>Peers</i>
25	(+)8634 (-)323 (-)1485 (+)322	$\lambda_{48}^{25}=1.00$	PCF DLR RWK RML	37	0 0 0 0	$\lambda_{37}^{37}=1.00$
26	(+)44837 (-)290 (-)1330 (+)1329	$\lambda_{48}^{26}=0.00$	PCF DLR RWK RML	38	(+)40762 (-)230 (-)5587 (-)79	$\lambda_{37}^{38}=1.00$
27	0 0 (-)2520 (+)200	$\lambda_{29}^{27}=0.21, \lambda_{37}^{27}=0.39,$ $\lambda_{48}^{27}=0.40$	PCF DLR RWK RML	39	0 (-)317 (+)214 (-)1051	$\lambda_{37}^{39}=0.90, \lambda_{48}^{39}=0.10$
28	(+)14830 (-)473 (-)9978 (-)1810	$\lambda_{48}^{28}=1.00$	PCF DLR RWK RML	40	0 (-)300 (+)1569 (-)1393	$\lambda_{37}^{40}=0.87, \lambda_{48}^{40}=0.13$
29	0 (-)378 (-)1417 (+)119	$\lambda_{37}^{29}=0.24, \lambda_{48}^{29}=0.76$	PCF DLR RWK RML	41	(-)18461 (-)445 (-)9095 (-)2096	$\lambda_{37}^{41}=1.00$
30	(+)3279 (-)42 (-)3233 (-)26	$\lambda_{37}^{30}=1.00$	PCF DLR RWK RML	42	(-)42060 (-)314 (-)2932 (-)3449	$\lambda_{37}^{42}=1.00$
31	(+)223 (-)262 (-)2925 0	$\lambda_{37}^{31}=0.60, \lambda_{48}^{31}=0.40$	PCF DLR RWK RML	43	0 (-)874 (-)4414 (-)2164	$\lambda_{37}^{43}=0.82, \lambda_{48}^{43}=0.18$
32	(+)33152 (-)298 (-)7042 (+)887	$\lambda_{48}^{32}=1.00$	PCF DLR RWK RML	44	0 (-)1739 (-)7428 (-)3282	$\lambda_{37}^{44}=0.37, \lambda_{48}^{44}=0.63$
33	(+)13525 (-)280 (-)3418 0	$\lambda_{37}^{33}=0.29, \lambda_{48}^{33}=0.71$	PCF DLR RWK RML	45	0 (-)1094 (-)6510 (-)2480	$\lambda_{37}^{45}=0.47, \lambda_{48}^{45}=0.53$
34	0 (-)285 (-)1306 (-)75	$\lambda_{37}^{34}=0.68, \lambda_{48}^{34}=0.32$	PCF DLR RWK RML	46	(+)1752 (-)1995 (-)9187 (-)1639	$\lambda_{48}^{46}=1.00$
35	(0) (-)603 (-)9472 (-)44	$\lambda_{37}^{35}=0.52, \lambda_{48}^{35}=0.48$	PCF DLR RWK RML	47	(+)39403 (+)73 (-)5757 (+)1513	$\lambda_{48}^{47}=1.00$
36	0 (-)285 (-)9196 (-)108	$\lambda_{37}^{36}=0.33, \lambda_{48}^{36}=0.67$	PCF DLR RWK RML	48	(+)2380 0 0 0	$\lambda_{48}^{48}=1.00$

E.6.b. GLOBAL TARGETS

<i>Input/Output</i>	<i>Target</i>	<i>Achieved</i>	<i>Slack</i>	<i>Effectiveness (μ)</i>
PCF	8311444.50	8013491.46	297953.04	0.83
DLR	54131.76	54131.76	0.00	1.00
RWK	273517.66	277370.00	-3852.34	0.99
RML	241759.14	272021.60	-30262.46	0.89

Appendix F

GLOBAL TARGET ACHIEVEMENT GRAPHS

- F.1. DATA SET 1-24.....(page 264)**
- F.2. DATA SET 25-48.....(page 268)**
- F.3. DATA SET 1-48.....(page 272)**

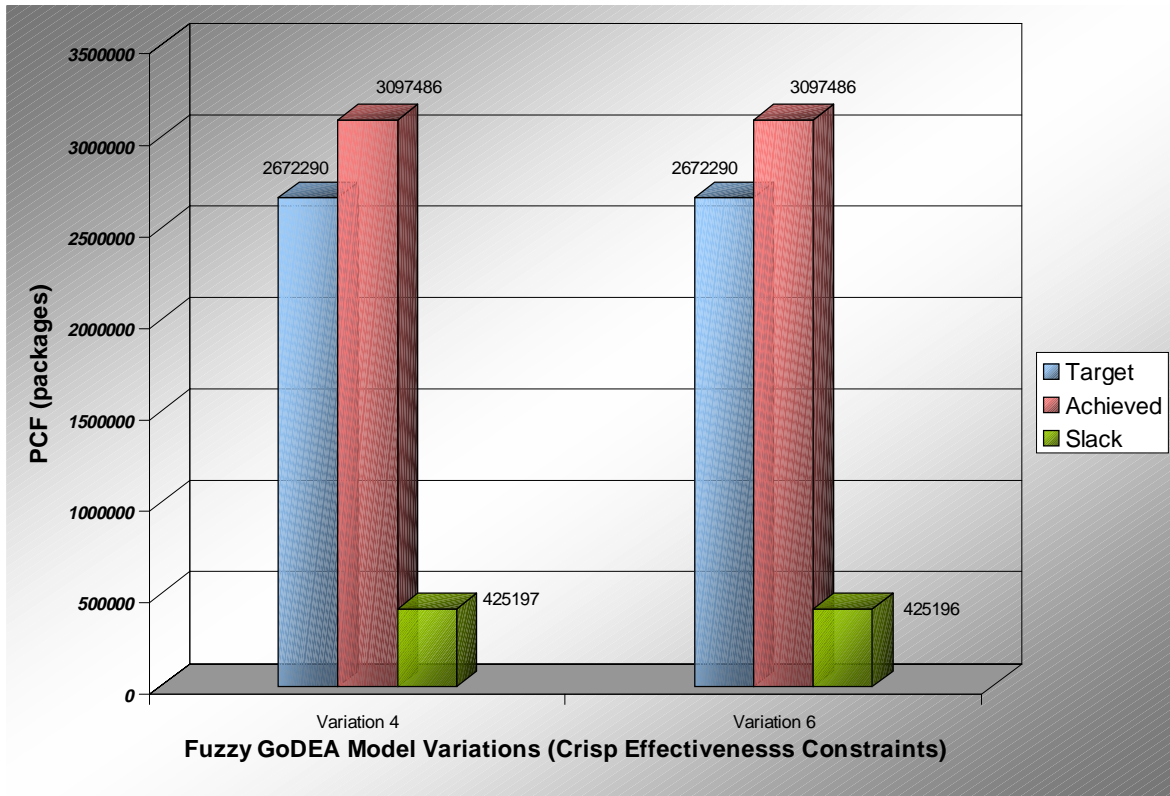
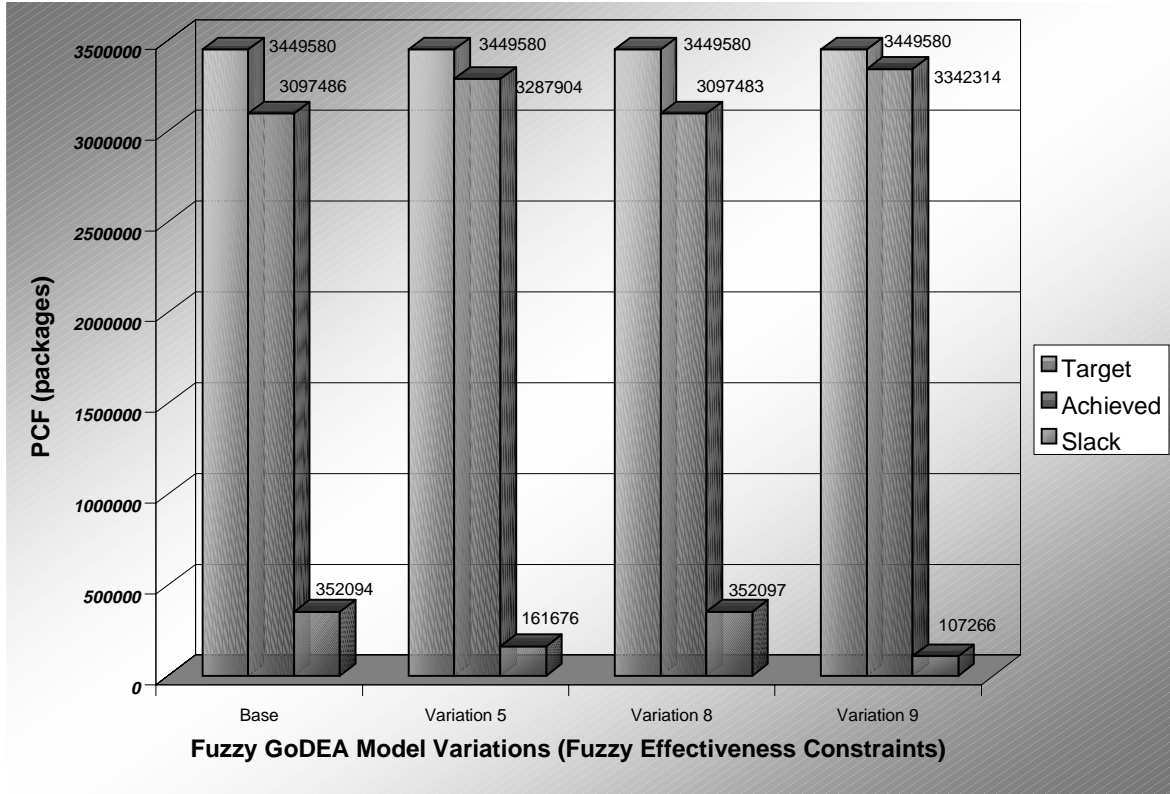


Figure F.1.a. PCF Global Target Achievement: Data Set 1-24

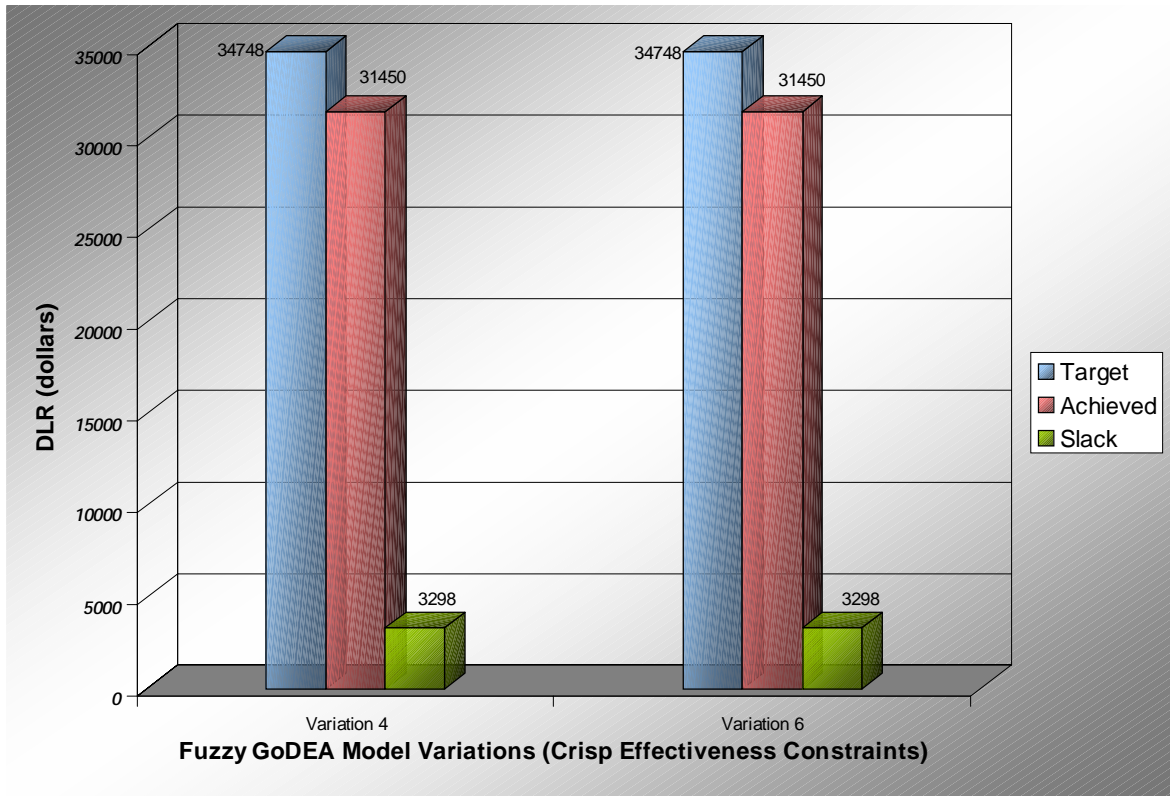
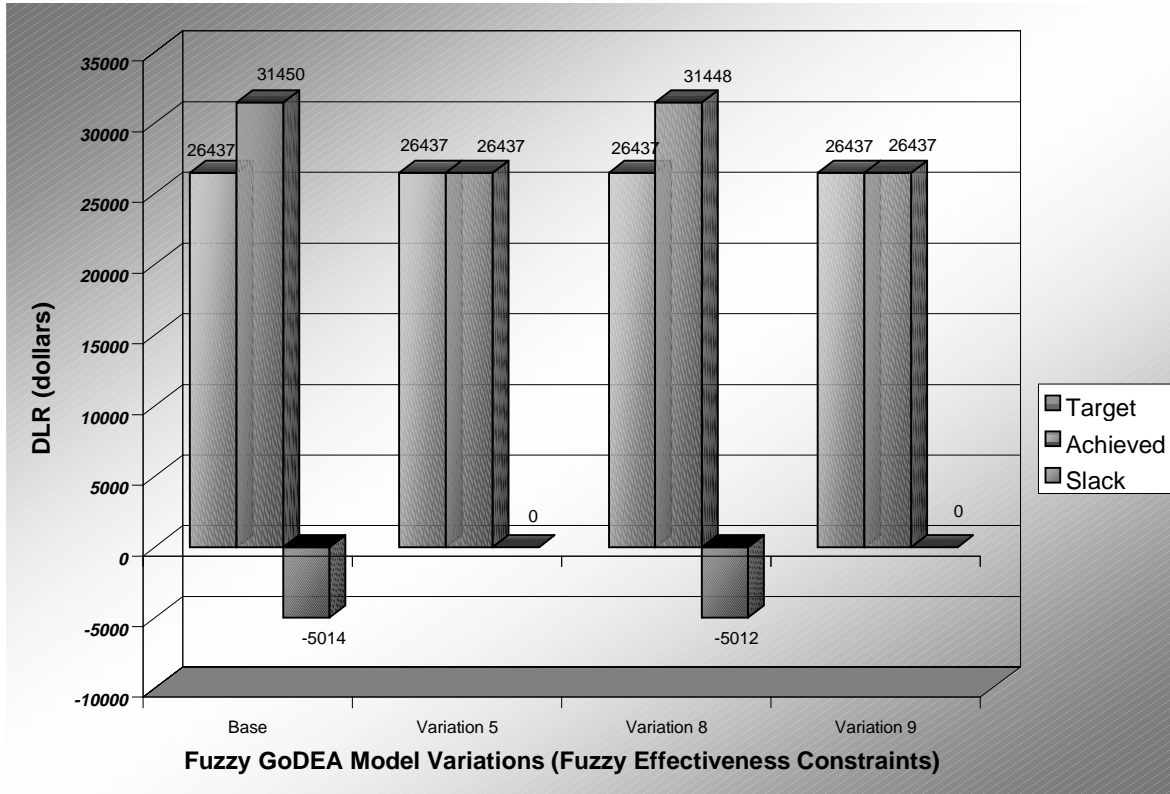


Figure F.1.b. DLR Global Target Achievement: Data Set 1-24

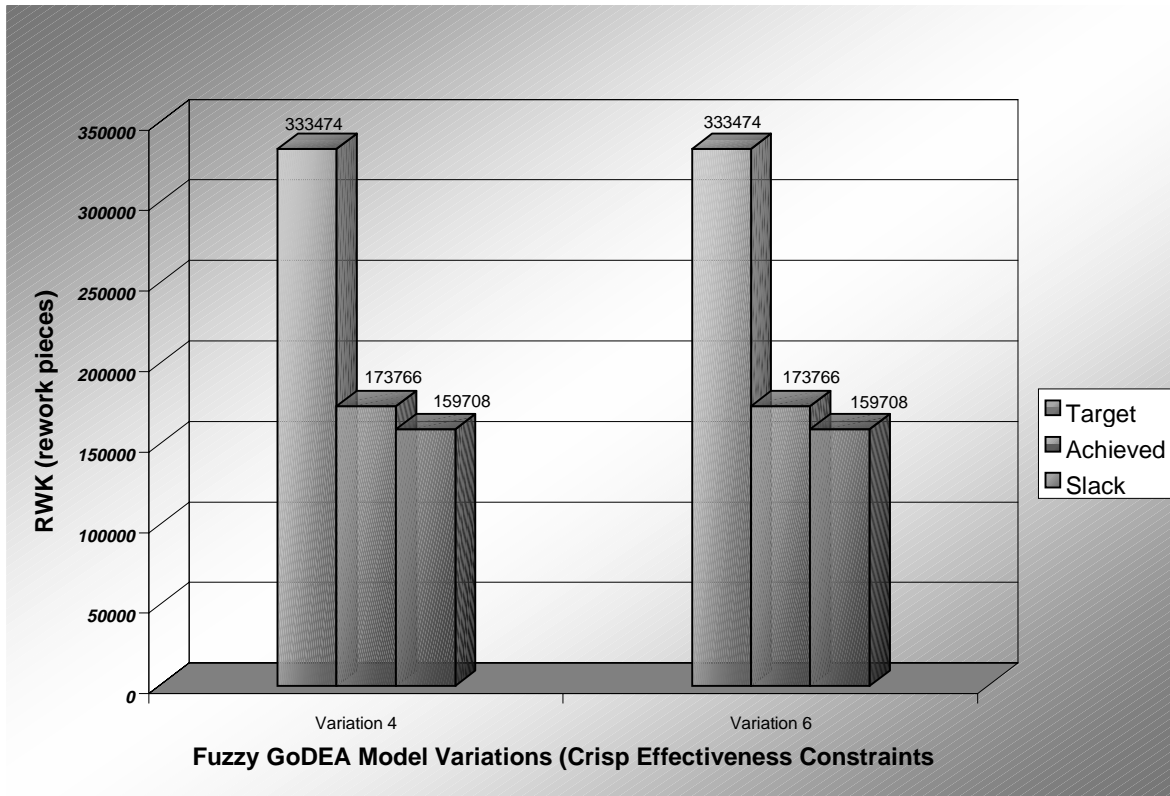
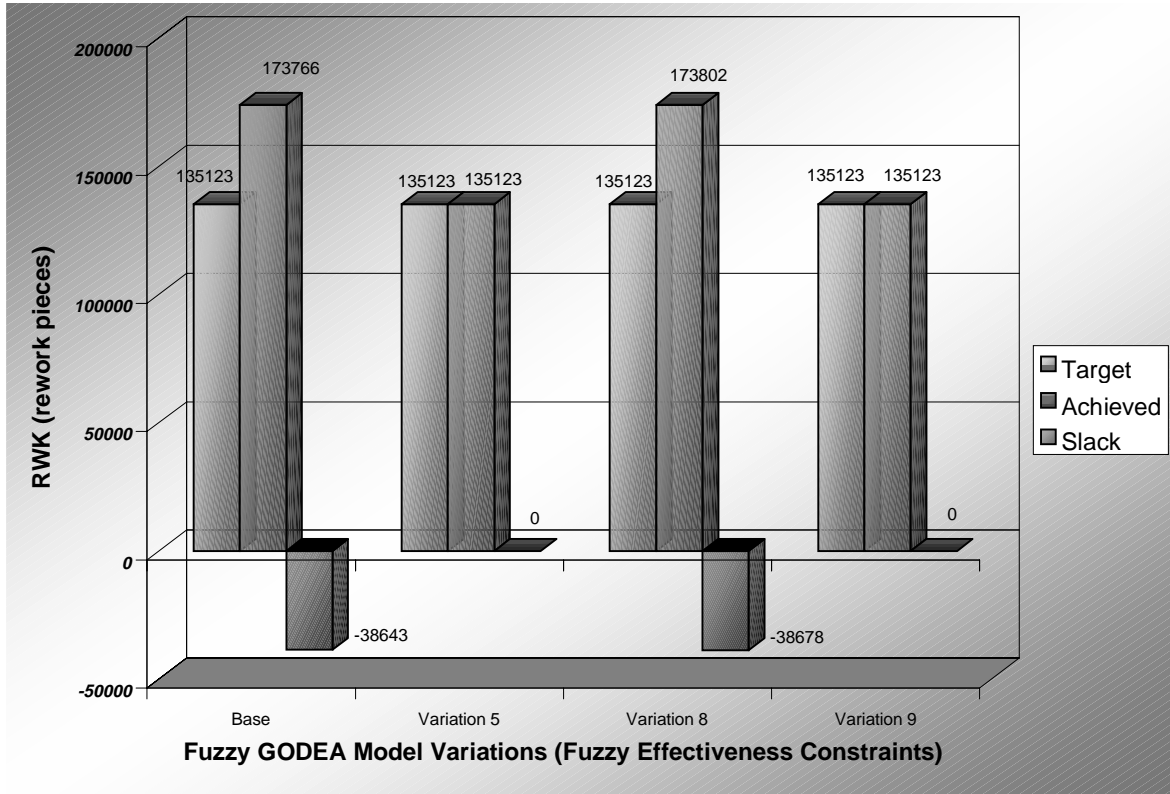


Figure F.1.c. RWK Global Target Achievement: Data Set 1-24

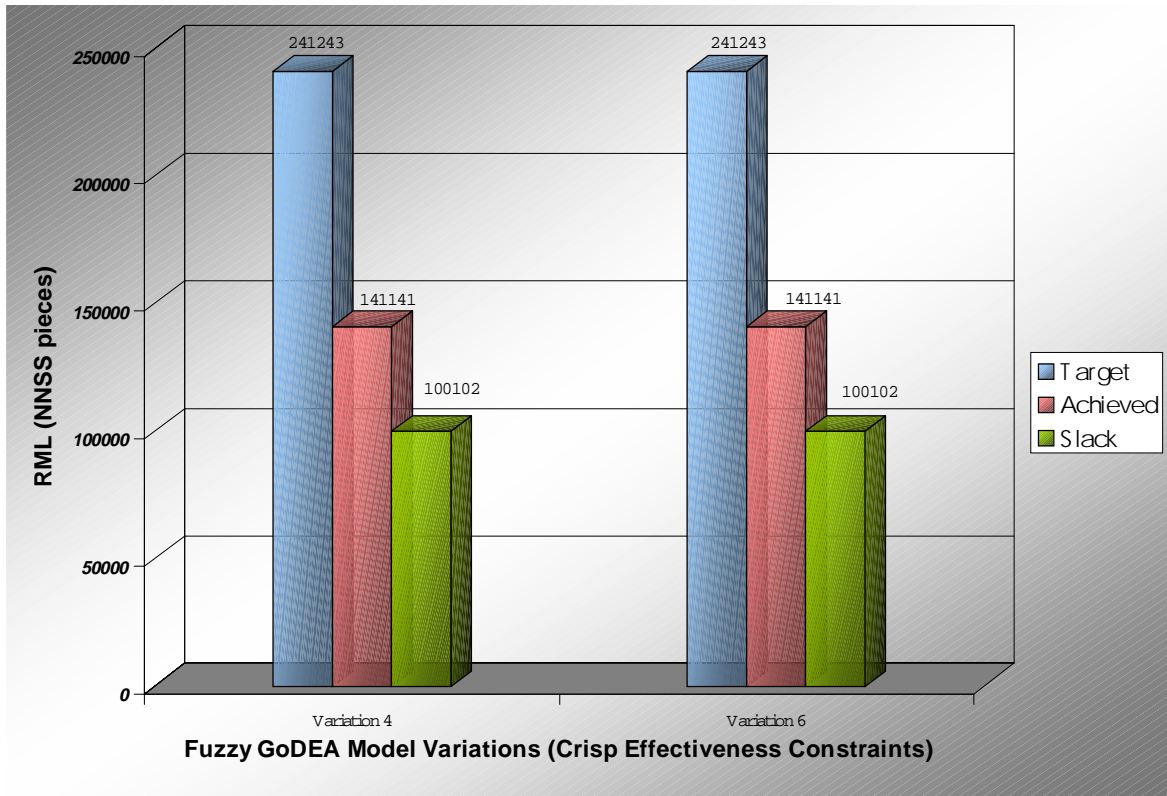
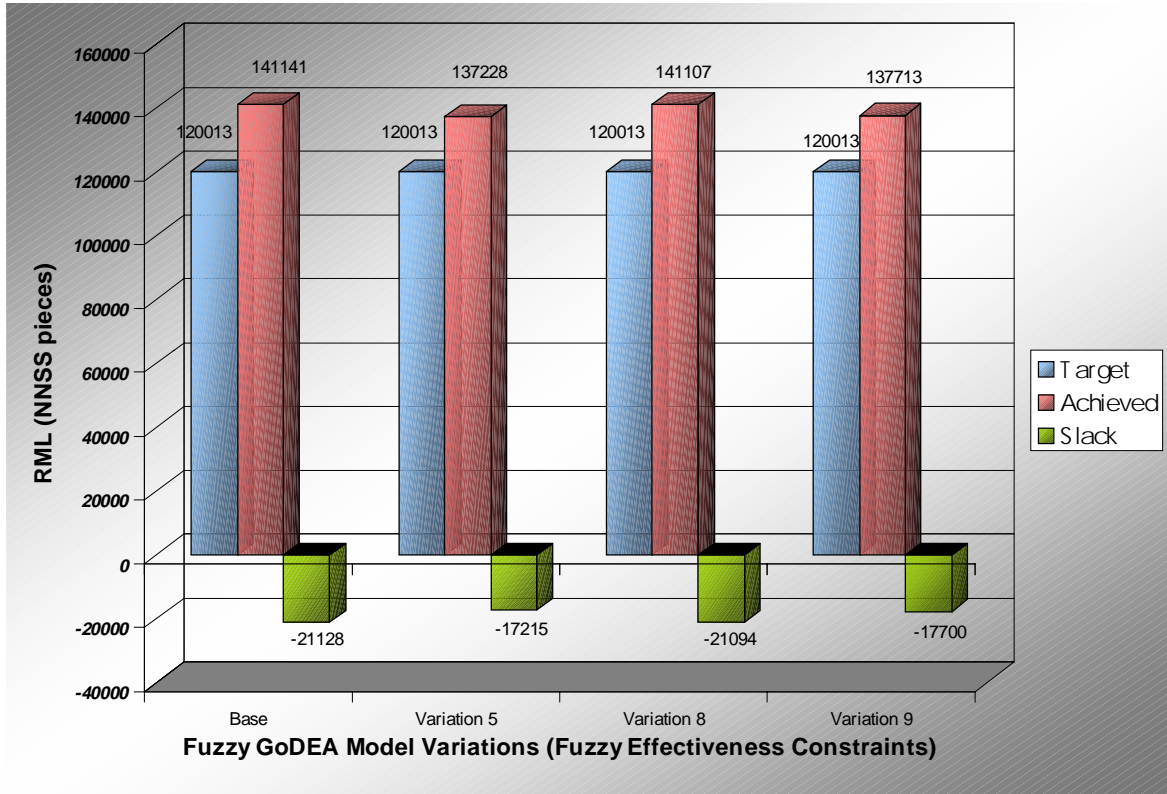


Figure F.1.d. RML Global Target Achievement: Data Set 1-24

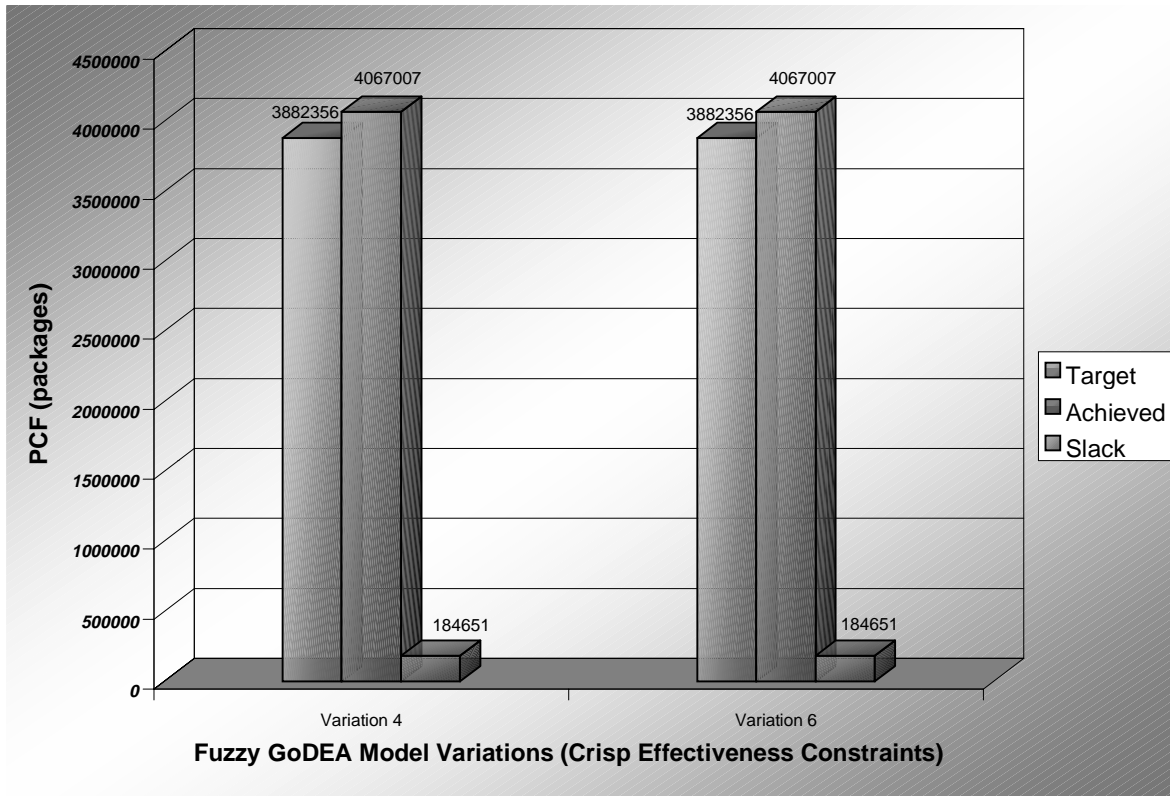
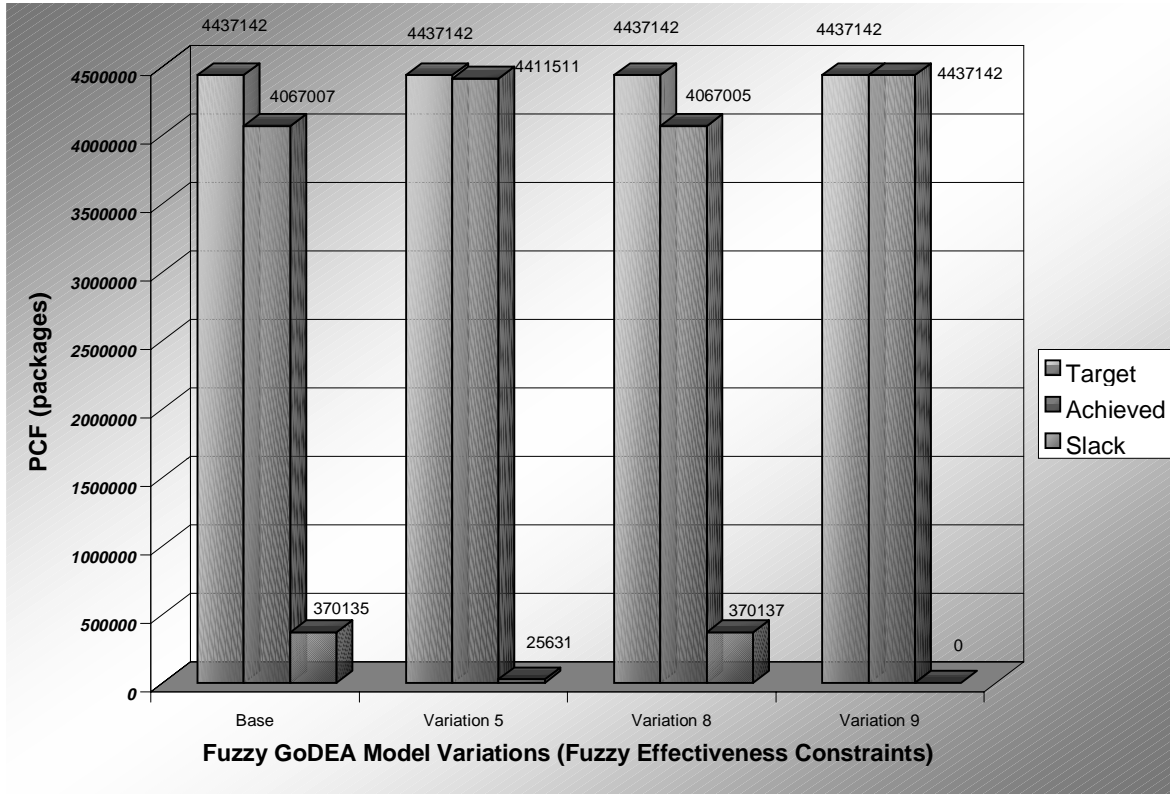


Figure F.2.a. PCF Global Target Achievement: Data Set 25-48

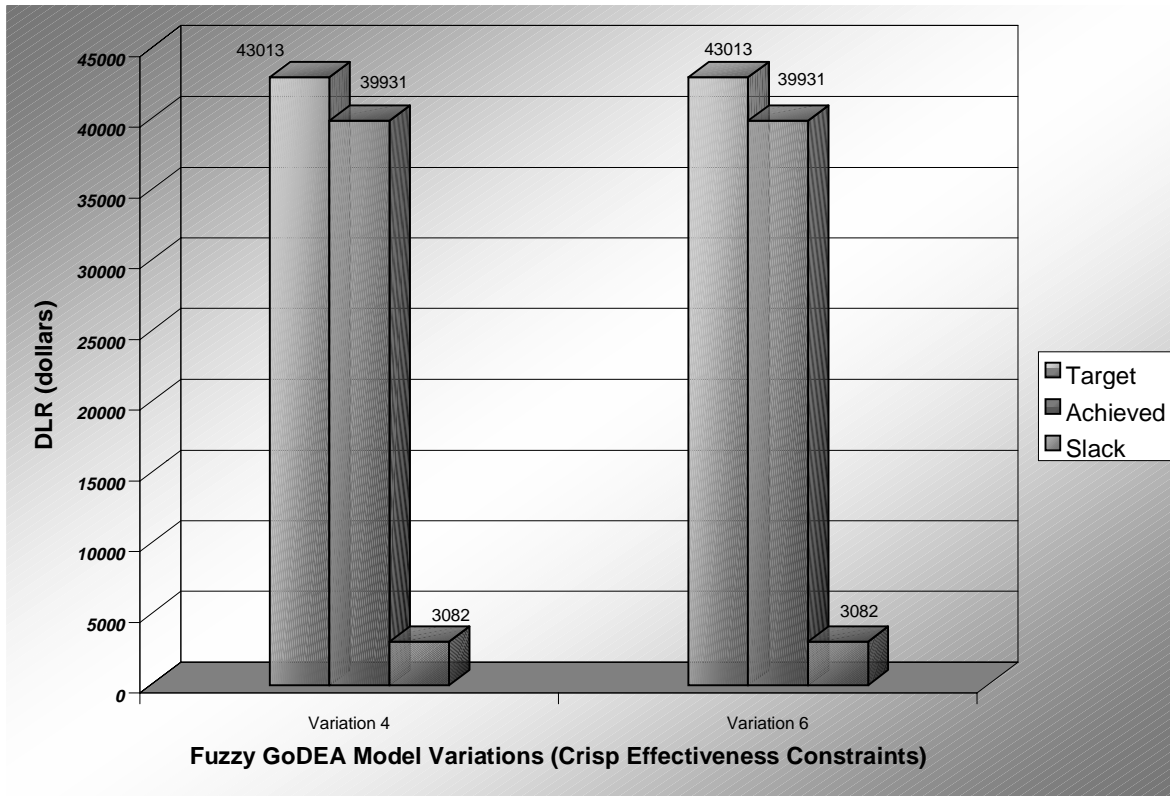
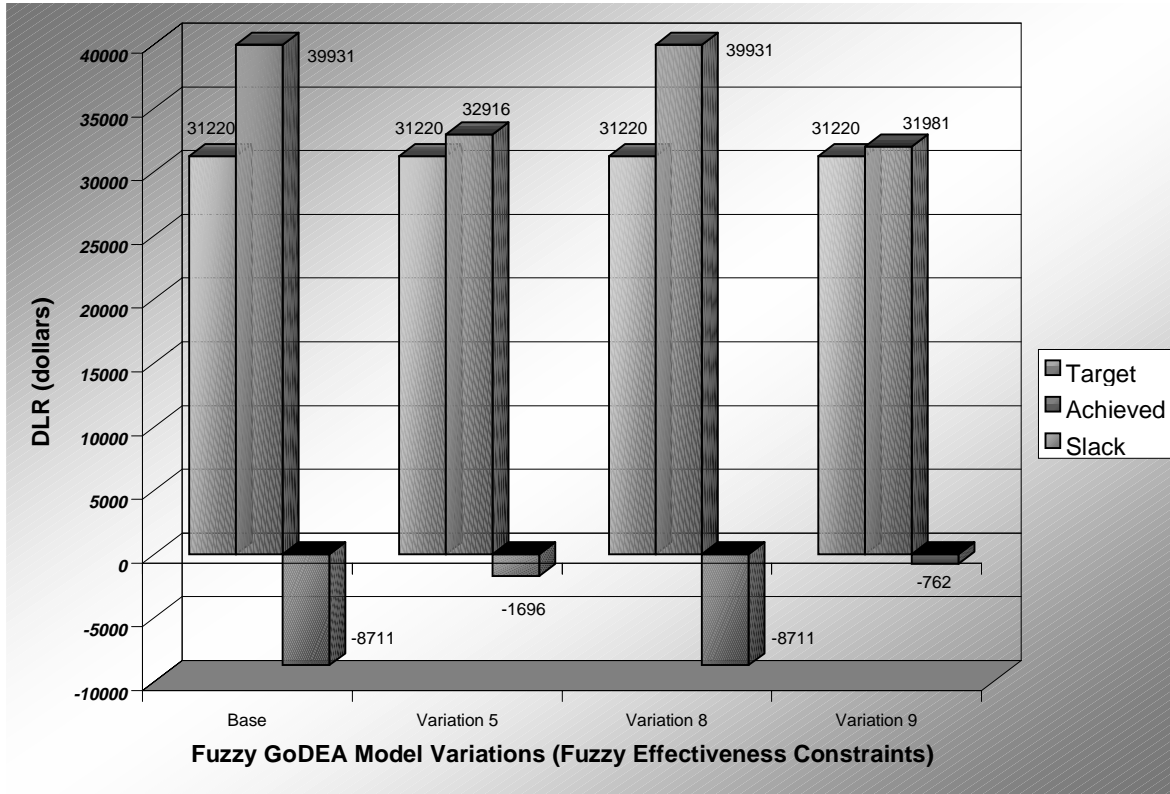


Figure F.2.b. DLR Global Target Achievement: Data Set 25-48

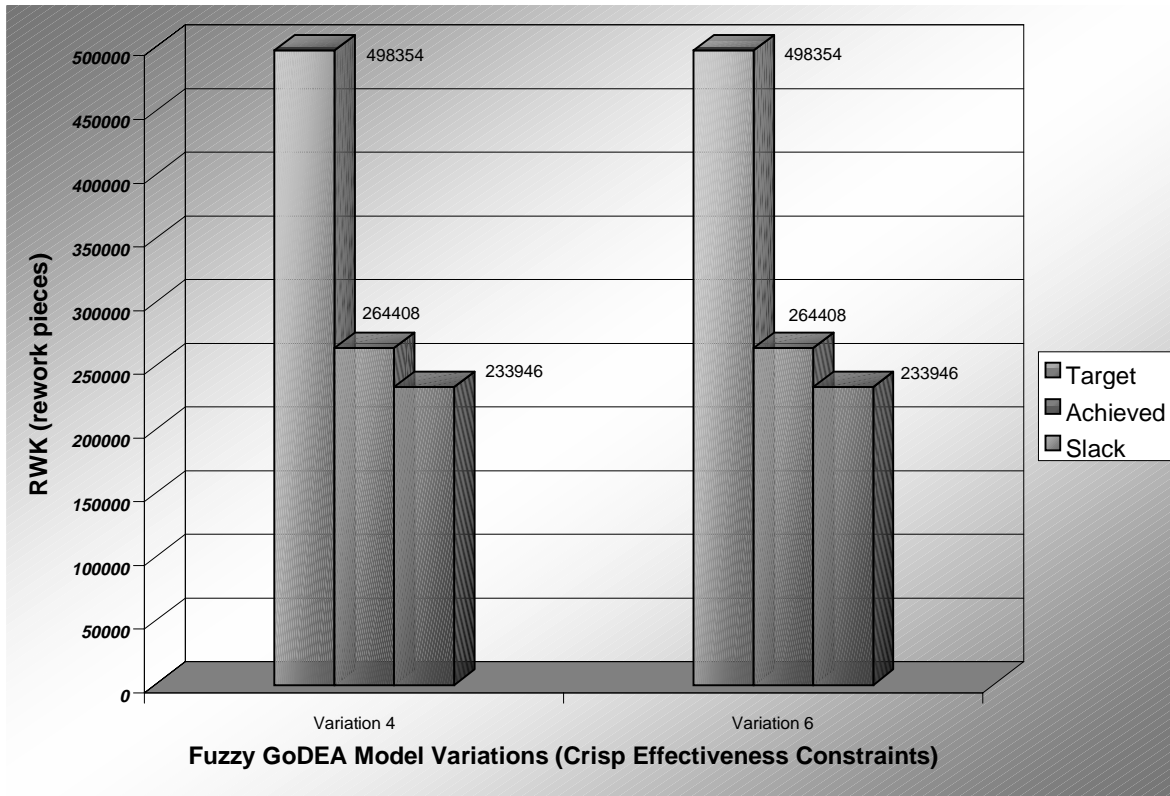
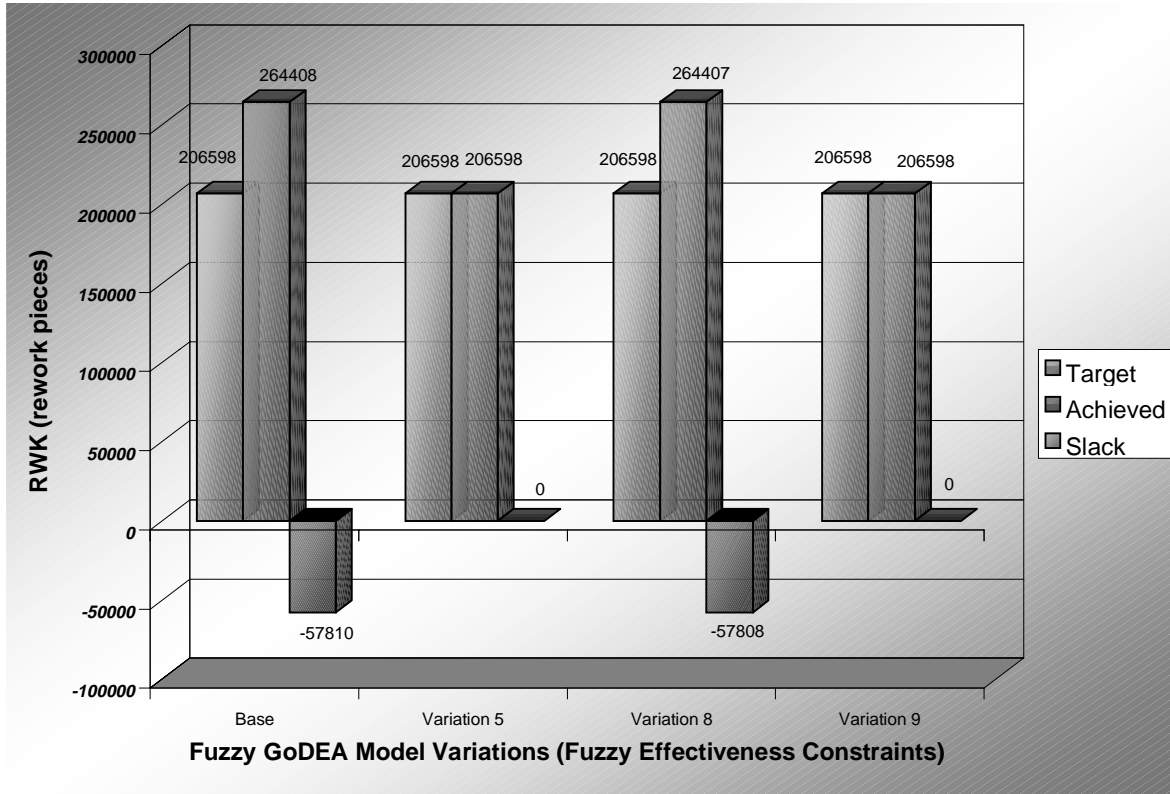


Figure F.2.c. RWK Global Target Achievement: Data Set 25-48

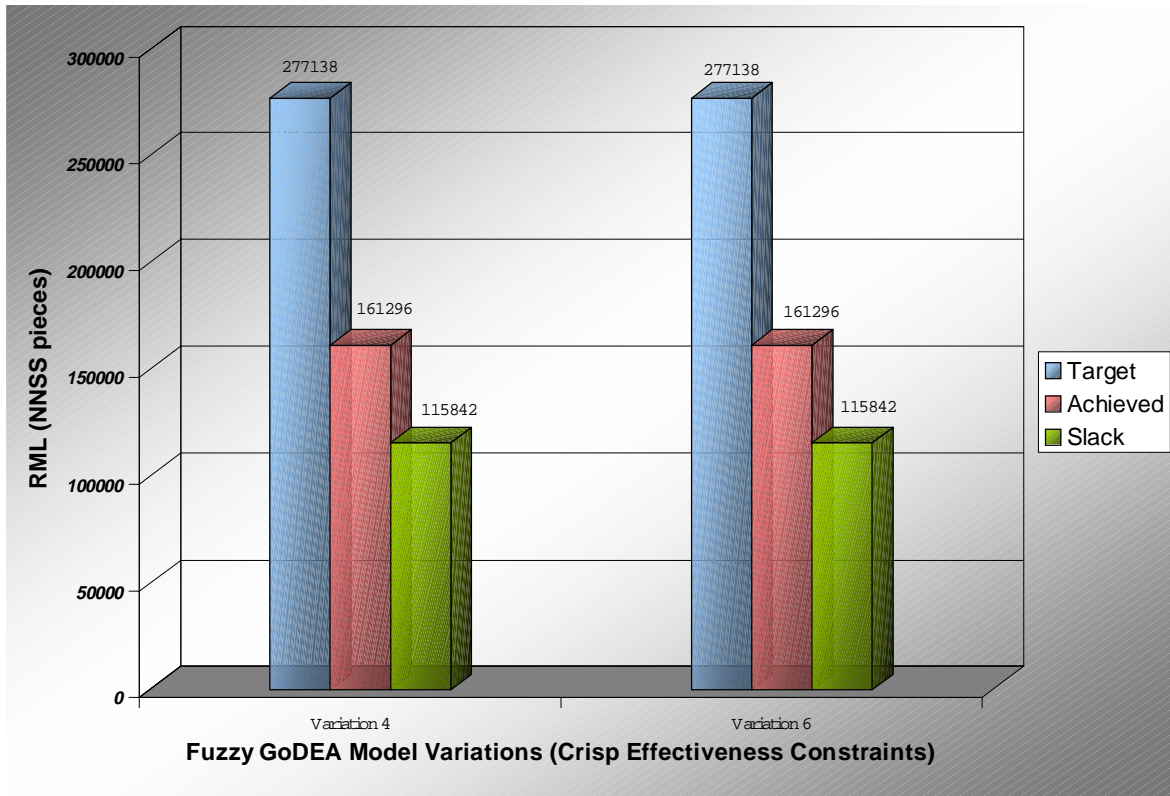
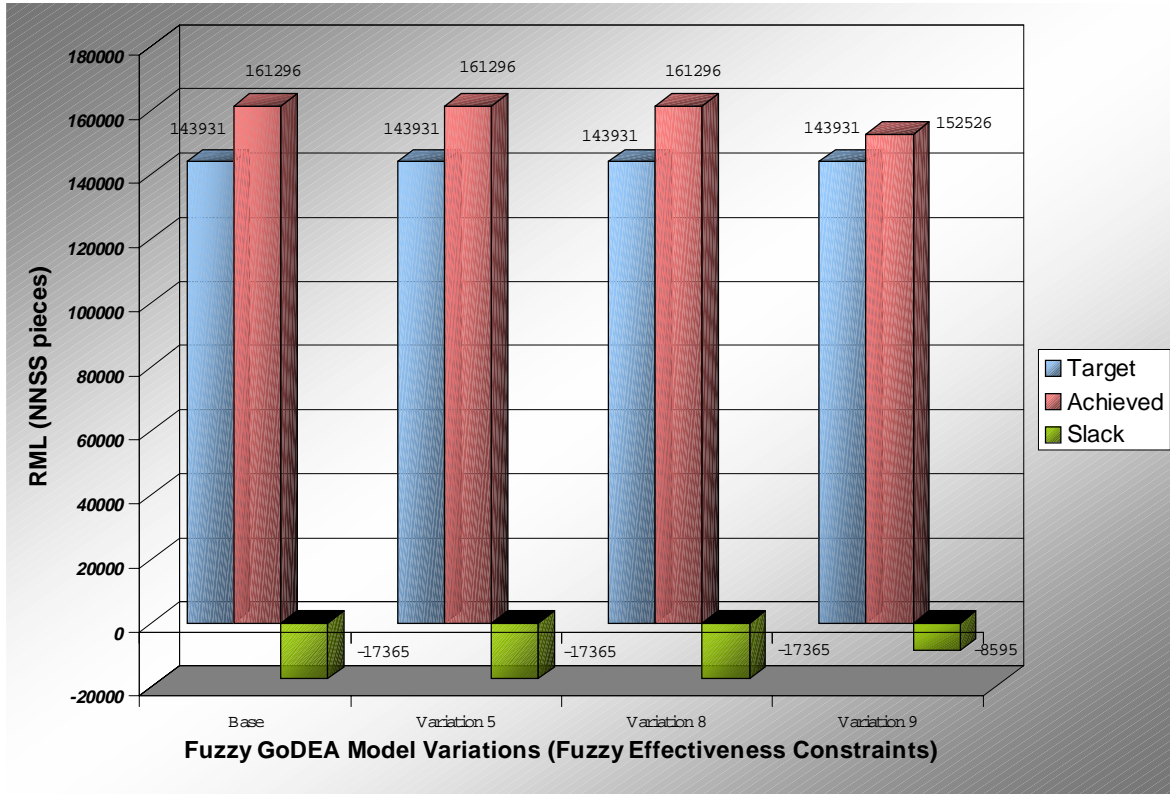


Figure F.2.d. RML Global Target Achievement: Data Set 25-48

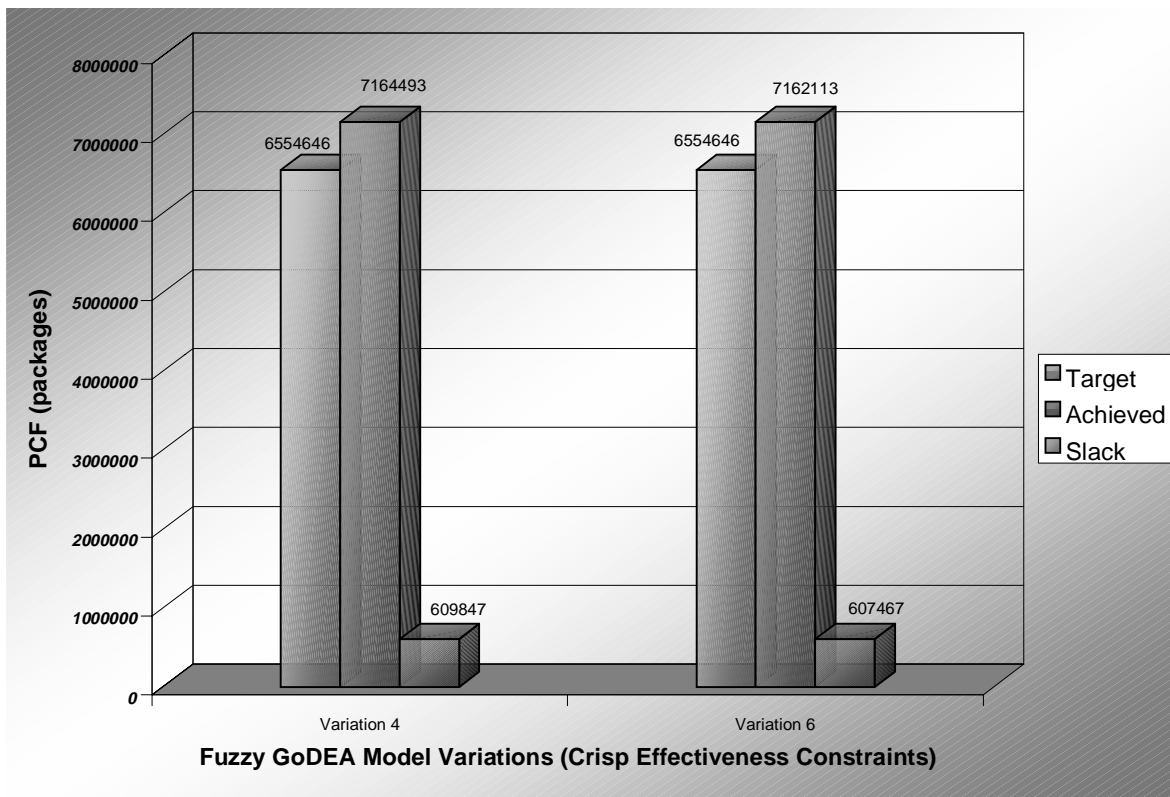
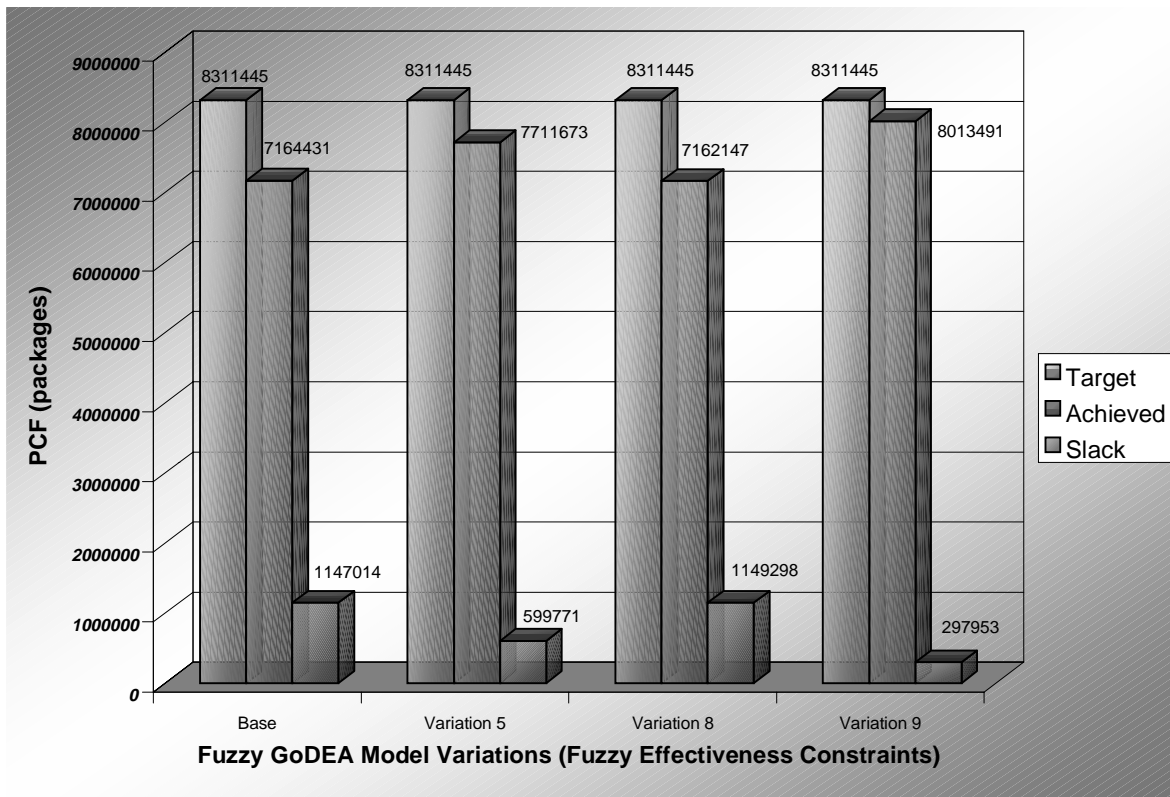


Figure F.3.a. PCF Global Target Achievement: Data Set 1-48

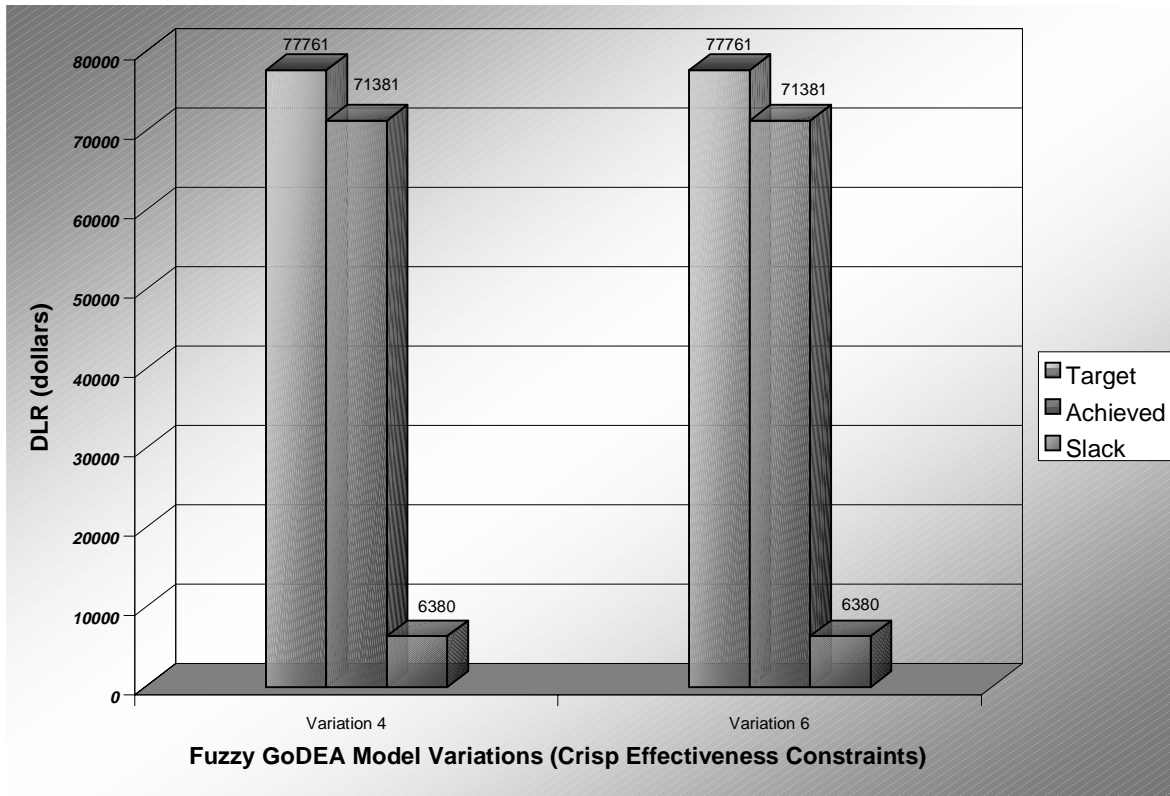
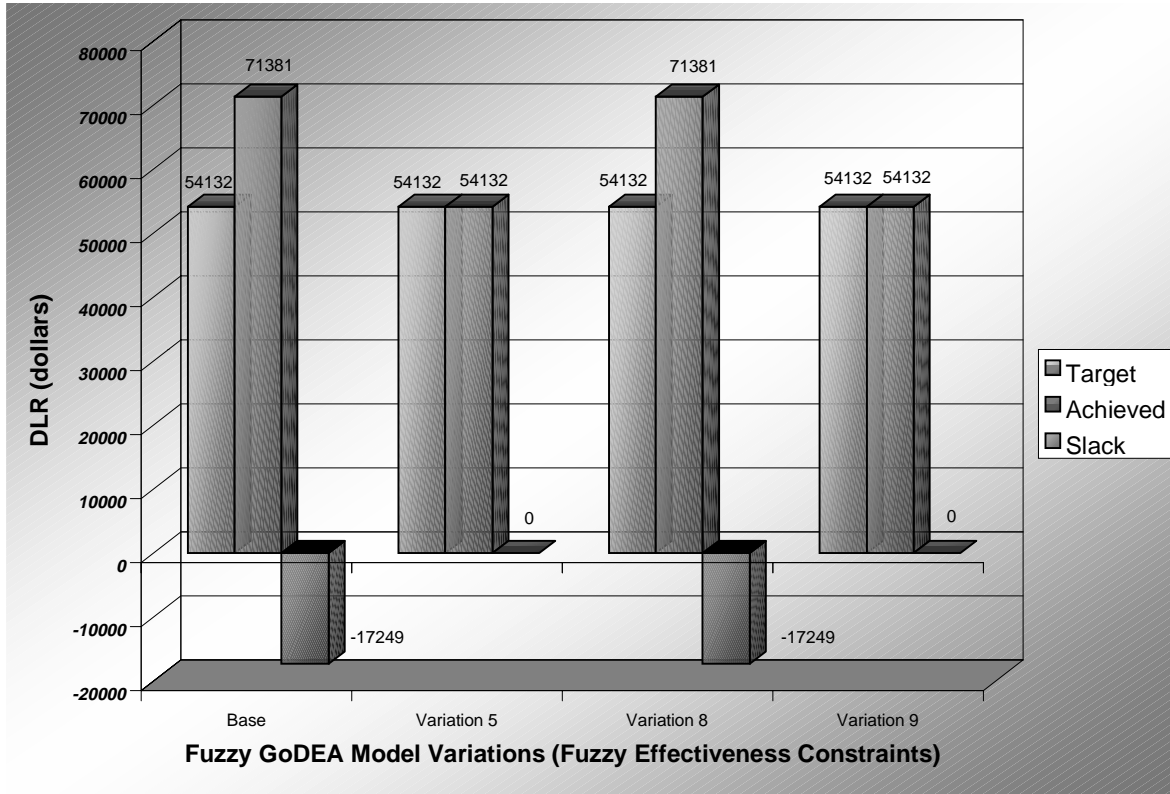


Figure F.3.b. DLR Global Target Achievement: Data Set 1-48

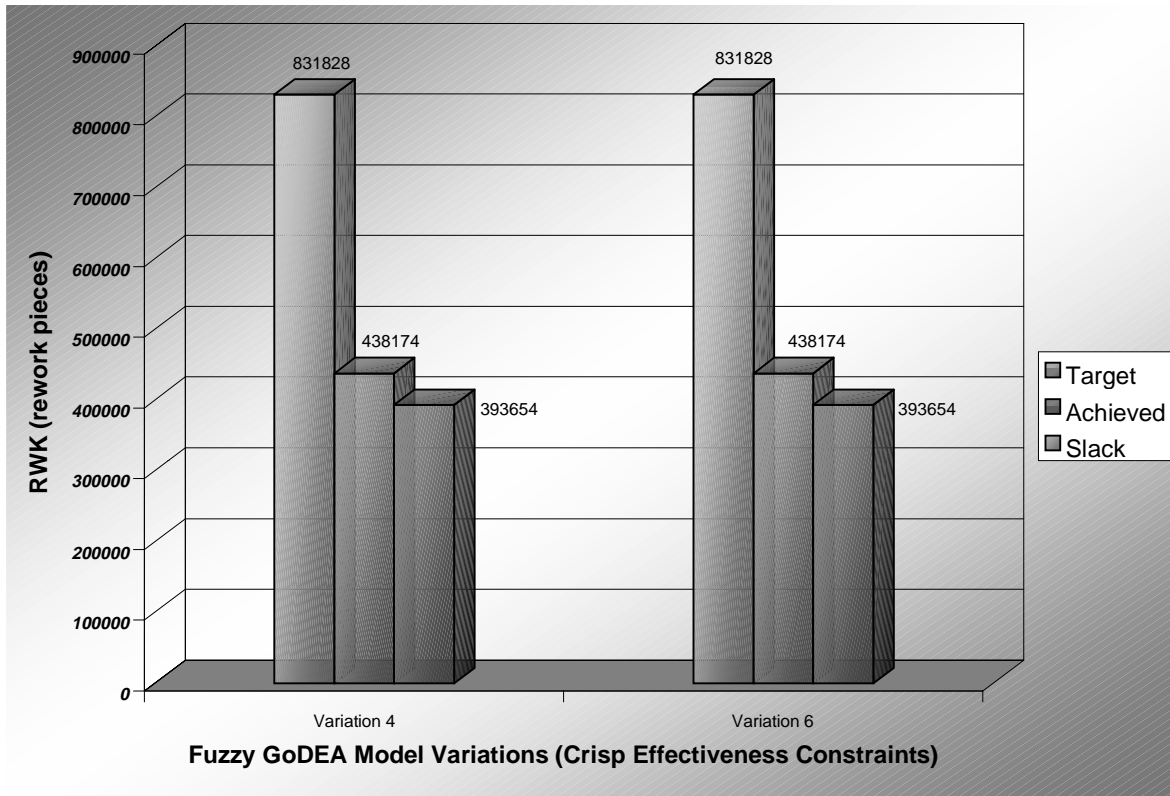
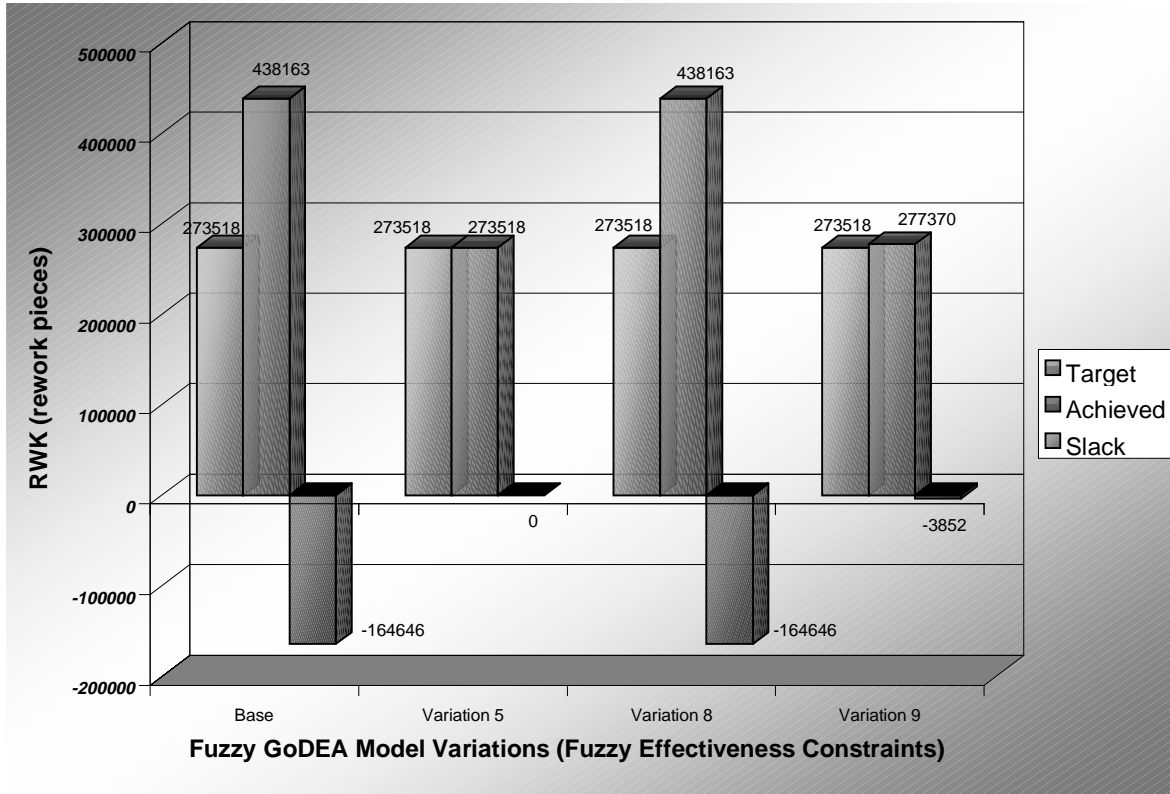


Figure F.3.c. RWK Global Target Achievement: Data Set 1-48

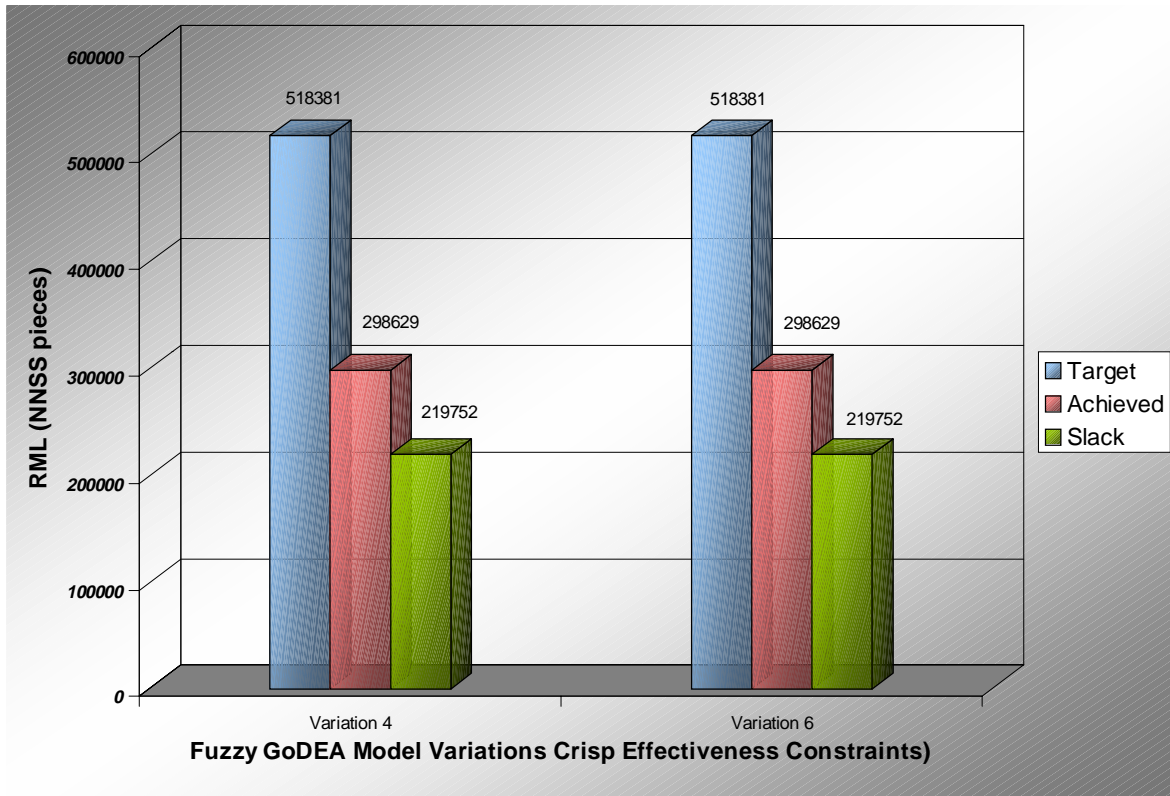
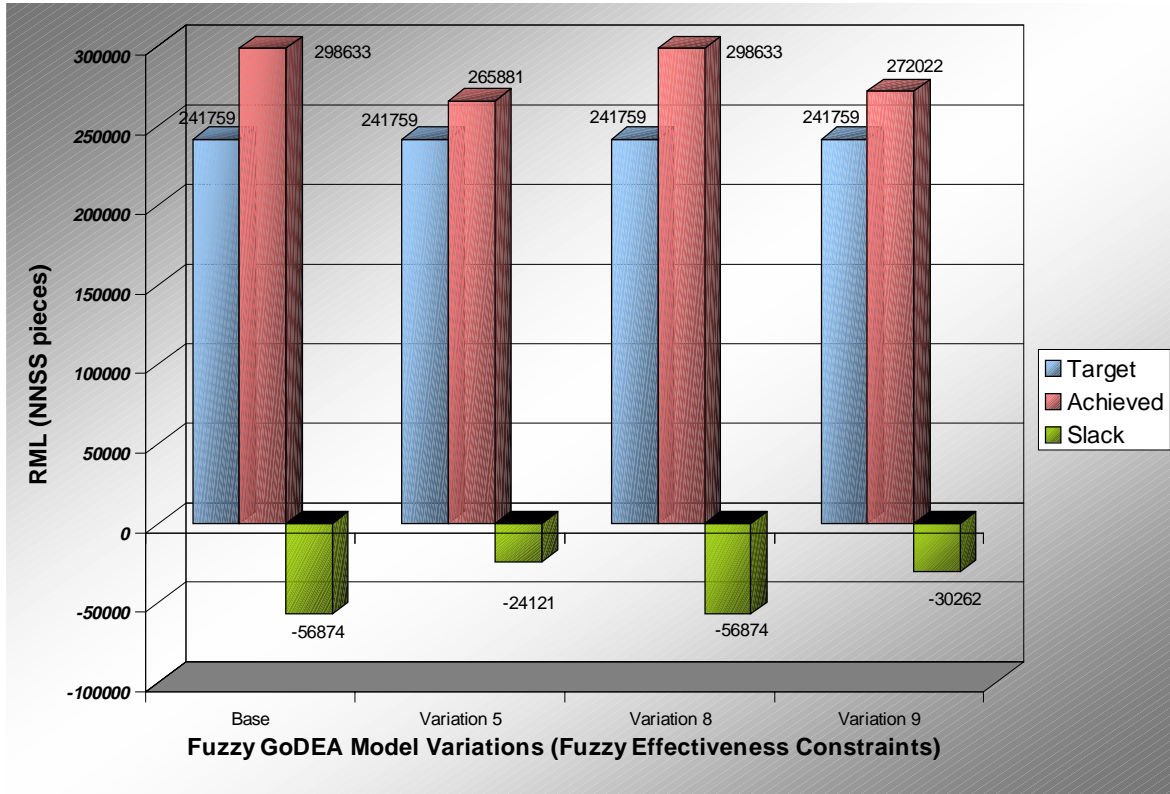


Figure F.3.d. RML Global Target Achievement: Data Set 1-48

Appendix G

CPLEX PROGRAM

G.1. SAMPLE CPLEX CODE(page 277)

G.1. SAMPLE CPLEX CODE

FUZZY GODEA BASE MODEL - Data Set 1-24

maximize

Mu_PCF1+Mu_DLR1+Mu_RWK1+Mu_RML1+Mu_PCF2+Mu_DLR2+Mu_RWK2+
Mu_RML2+Mu_PCF3+Mu_DLR3+Mu_RWK3+Mu_RML3+Mu_PCF4+Mu_DLR4+
Mu_RWK4+Mu_RML4+Mu_PCF5+Mu_DLR5+Mu_RWK5+Mu_RML5+Mu_PCF6+
Mu_DLR6+Mu_RWK6+Mu_RML6+Mu_PCF7+Mu_DLR7+Mu_RWK7+Mu_RML7+
Mu_PCF8+Mu_DLR8+Mu_RWK8+Mu_RML8+Mu_PCF9+Mu_DLR9+Mu_RWK9+
Mu_RML9+Mu_PCF10+Mu_DLR10+Mu_RWK10+Mu_RML10+Mu_PCF11+
Mu_DLR11+Mu_RWK11+Mu_RML11+Mu_PCF12+Mu_DLR12+Mu_RWK12+
Mu_RML12+Mu_PCF13+Mu_DLR13+Mu_RWK13+Mu_RML13+Mu_PCF14+
Mu_DLR14+Mu_RWK14+Mu_RML14+Mu_PCF15+Mu_DLR15+Mu_RWK15+
Mu_RML15+Mu_PCF16+Mu_DLR16+Mu_RWK16+Mu_RML16+Mu_PCF17+
Mu_DLR17+Mu_RWK17+Mu_RML17+Mu_PCF18+Mu_DLR18+Mu_RWK18+
Mu_RML18+Mu_PCF19+Mu_DLR19+Mu_RWK19+Mu_RML19+Mu_PCF20+
Mu_DLR20+Mu_RWK20+Mu_RML20+Mu_PCF21+Mu_DLR21+Mu_RWK21+
Mu_RML21+Mu_PCF22+Mu_DLR22+Mu_RWK22+Mu_RML22+Mu_PCF23+
Mu_DLR23+Mu_RWK23+Mu_RML23+Mu_PCF24+Mu_DLR24+Mu_RWK24+
Mu_RML24+Mu_PCF+Mu_DLR+Mu_RWK+Mu_RML

St

DMU1_PCF:

1604.28Mu_PCF1-69252.19Lam1_1-140761.31Lam2_1-
113105.4Lam3_1-122719.8Lam4_1-105469.25Lam5_1-
116685.58Lam6_1-165051.71Lam7_1-72655.02Lam8_1-
95551.33Lam9_1-123916.8Lam10_1-114881.57Lam11_1-
115668.57Lam12_1-107717.26Lam13_1-152197.04Lam14_1-
138477.34Lam15_1-147305.07Lam16_1-135362.21Lam17_1-
131330.27Lam18_1-82897.81Lam19_1-153299.97Lam20_1-
210676.69Lam21_1-177158.17Lam22_1-130537.14Lam23_1-
174808.75Lam24_1=-67647.91

DMU1_DLR:

98.60Mu_DLR1+788.80Lam1_1+1347.50Lam2_1+690.00Lam3_1+
1225.00Lam4_1+1191.30Lam5_1+915.60Lam6_1+1442.00Lam7_1+
787.50Lam8_1+840Lam9_1+1316Lam10_1+1012.80Lam11_1+
1519.20Lam12_1+980Lam13_1+1808.40Lam14_1+1842.40Lam15_1+
2105.60Lam16_1+1678.30Lam17_1+1539.60Lam18_1+394.80Lam19_1+
1774.50Lam20_1+1729.20Lam21_1+1700.40Lam22_1+1109.70Lam23_1+
+1711.50Lam24_1=887.40

DMU1_RWK:

650Mu_RWK1+501Lam1_1+5579Lam2_1+5806Lam3_1+
5954Lam4_1+4493Lam5_1+1649Lam6_1+7055Lam7_1+

2709Lam8_1+1559Lam9_1+4882Lam10_1+3274Lam11_1+
6480Lam12_1+4422Lam13_1+17258Lam14_1+15943Lam15_1+
13528Lam16_1+8552Lam17_1+8736Lam18_1+3300Lam19_1+
12159Lam20_1+9297Lam21_1+13519Lam22_1+3149Lam23_1+
13962Lam24_1=1151

DMU1_RML:

666.19Mu_RML1+800.84Lam1_1+6340.26Lam2_1+4874.65Lam3_1+
6141.23Lam4_1+4812.87Lam5_1+4572.68Lam6_1+6752.04Lam7_1+
2897.71Lam8_1+3861.69Lam9_1+5812.54Lam10_1+5610.50Lam11_1+
4944.07Lam12_1+5119.43Lam13_1+6679.28Lam14_1+5655.94Lam15_1
+5913.64Lam16_1+6251.86Lam17_1+5595.36Lam18_1+3606.40Lam19_
1+8923.01Lam20_1+11518.68Lam21_1+12598.32Lam22_1+5395.01Lam
23_1+6462.91Lam24_1=1467.04

DMU2_PCF:

8082.42Mu_PCF2-69252.19Lam1_2-140761.31Lam2_2-
113105.4Lam3_2-122719.8Lam4_2-105469.25Lam5_2-
116685.58Lam6_2-165051.71Lam7_2-72655.02Lam8_2-
95551.33Lam9_2-123916.8Lam10_2-114881.57Lam11_2-
115668.57Lam12_2-107717.26Lam13_2-152197.04Lam14_2-
138477.34Lam15_2-147305.07Lam16_2-135362.21Lam17_2-
131330.27Lam18_2-82897.81Lam19_2-153299.97Lam20_2-
210676.69Lam21_2-177158.17Lam22_2-130537.14Lam23_2-
174808.75Lam24_2=-132678.89

DMU2_DLR:

122.50Mu_DLR2+788.80Lam1_2+1347.50Lam2_2+690.00Lam3_2+
1225.00Lam4_2+1191.30Lam5_2+915.60Lam6_2+1442.00Lam7_2+
787.50Lam8_2+840Lam9_2+1316Lam10_2+1012.80Lam11_2+
1519.20Lam12_2+980Lam13_2+1808.40Lam14_2+1842.40Lam15_2+
2105.60Lam16_2+1678.30Lam17_2+1539.60Lam18_2+394.80Lam19_2+
1774.50Lam20_2+1729.20Lam21_2+1700.40Lam22_2+1109.70Lam23_2
+1711.50Lam24_2=1470

DMU2_RWK:

4444Mu_RWK2+501Lam1_2+5579Lam2_2+5806Lam3_2+
5954Lam4_2+4493Lam5_2+1649Lam6_2+7055Lam7_2+
2709Lam8_2+1559Lam9_2+4882Lam10_2+3274Lam11_2+
6480Lam12_2+4422Lam13_2+17258Lam14_2+15943Lam15_2+
13528Lam16_2+8552Lam17_2+8736Lam18_2+3300Lam19_2+
12159Lam20_2+9297Lam21_2+13519Lam22_2+3149Lam23_2+
13962Lam24_2=10023

DMU2_RML:

4799.39Mu_RML2+800.84Lam1_2+6340.26Lam2_2+4874.65Lam3_2+
6141.23Lam4_2+4812.87Lam5_2+4572.68Lam6_2+6752.04Lam7_2+
2897.71Lam8_2+3861.69Lam9_2+5812.54Lam10_2+5610.50Lam11_2+
4944.07Lam12_2+5119.43Lam13_2+6679.28Lam14_2+5655.94Lam15_2
+5913.64Lam16_2+6251.86Lam17_2+5595.36Lam18_2+3606.40Lam19_

2+8923.01Lam20_2+11518.68Lam21_2+12598.32Lam22_2+5395.01Lam
23_2+6462.91Lam24_2=11139.65

DMU3_PCF:

1723.05Mu_PCF3-69252.19Lam1_3-140761.31Lam2_3-
113105.4Lam3_3-122719.8Lam4_3-105469.25Lam5_3-
116685.58Lam6_3-165051.71Lam7_3-72655.02Lam8_3-
95551.33Lam9_3-123916.8Lam10_3-114881.57Lam11_3-
115668.57Lam12_3-107717.26Lam13_3-152197.04Lam14_3-
138477.34Lam15_3-147305.07Lam16_3-135362.21Lam17_3-
131330.27Lam18_3-82897.81Lam19_3-153299.97Lam20_3-
210676.69Lam21_3-177158.17Lam22_3-130537.14Lam23_3-
174808.75Lam24_3=-111382.35

DMU3_DLR:

115.00Mu_DLR3+788.80Lam1_3+1347.50Lam2_3+690.00Lam3_3+
1225.00Lam4_3+1191.30Lam5_3+915.60Lam6_3+1442.00Lam7_3+
787.50Lam8_3+840Lam9_3+1316Lam10_3+1012.80Lam11_3+
1519.20Lam12_3+980Lam13_3+1808.40Lam14_3+1842.40Lam15_3+
2105.60Lam16_3+1678.30Lam17_3+1539.60Lam18_3+394.80Lam19_3+
1774.50Lam20_3+1729.20Lam21_3+1700.40Lam22_3+1109.70Lam23_3+
+1711.50Lam24_3=805

DMU3_RWK:

9044.00Mu_RWK3+501Lam1_3+5579Lam2_3+5806Lam3_3+
5954Lam4_3+4493Lam5_3+1649Lam6_3+7055Lam7_3+
2709Lam8_3+1559Lam9_3+4882Lam10_3+3274Lam11_3+
6480Lam12_3+4422Lam13_3+17258Lam14_3+15943Lam15_3+
13528Lam16_3+8552Lam17_3+8736Lam18_3+3300Lam19_3+
12159Lam20_3+9297Lam21_3+13519Lam22_3+3149Lam23_3+
13962Lam24_3=14850

DMU3_RML:

3596.45Mu_RML3+800.84Lam1_3+6340.26Lam2_3+4874.65Lam3_3+
6141.23Lam4_3+4812.87Lam5_3+4572.68Lam6_3+6752.04Lam7_3+
2897.71Lam8_3+3861.69Lam9_3+5812.54Lam10_3+5610.50Lam11_3+
4944.07Lam12_3+5119.43Lam13_3+6679.28Lam14_3+5655.94Lam15_3+
+5913.64Lam16_3+6251.86Lam17_3+5595.36Lam18_3+3606.40Lam19_3+
3+8923.01Lam20_3+11518.68Lam21_3+12598.32Lam22_3+5395.01Lam
23_3+6462.91Lam24_3=8471.10

DMU4_PCF:

15731.98Mu_PCF4-69252.19Lam1_4-140761.31Lam2_4-
113105.4Lam3_4-122719.8Lam4_4-105469.25Lam5_4-
116685.58Lam6_4-165051.71Lam7_4-72655.02Lam8_4-
95551.33Lam9_4-123916.8Lam10_4-114881.57Lam11_4-
115668.57Lam12_4-107717.26Lam13_4-152197.04Lam14_4-
138477.34Lam15_4-147305.07Lam16_4-135362.21Lam17_4-
131330.27Lam18_4-82897.81Lam19_4-153299.97Lam20_4-
210676.69Lam21_4-177158.17Lam22_4-130537.14Lam23_4-

174808.75Lam24_4=-106987.82

DMU4_DLR:

122.50Mu_DLR4+788.80Lam1_4+1347.50Lam2_4+690.00Lam3_4+
1225.00Lam4_4+1191.30Lam5_4+915.60Lam6_4+1442.00Lam7_4+
787.50Lam8_4+840Lam9_4+1316Lam10_4+1012.80Lam11_4+
1519.20Lam12_4+980Lam13_4+1808.40Lam14_4+1842.40Lam15_4+
2105.60Lam16_4+1678.30Lam17_4+1539.60Lam18_4+394.80Lam19_4+
1774.50Lam20_4+1729.20Lam21_4+1700.40Lam22_4+1109.70Lam23_4
+1711.50Lam24_4=1347.50

DMU4_RWK:

6134Mu_RWK4+501Lam1_4+5579Lam2_4+5806Lam3_4+
5954Lam4_4+4493Lam5_4+1649Lam6_4+7055Lam7_4+
2709Lam8_4+1559Lam9_4+4882Lam10_4+3274Lam11_4+
6480Lam12_4+4422Lam13_4+17258Lam14_4+15943Lam15_4+
13528Lam16_4+8552Lam17_4+8736Lam18_4+3300Lam19_4+
12159Lam20_4+9297Lam21_4+13519Lam22_4+3149Lam23_4+
13962Lam24_4=12088

DMU4_RML:

4967.01Mu_RML4+800.84Lam1_4+6340.26Lam2_4+4874.65Lam3_4+
6141.23Lam4_4+4812.87Lam5_4+4572.68Lam6_4+6752.04Lam7_4+
2897.71Lam8_4+3861.69Lam9_4+5812.54Lam10_4+5610.50Lam11_4+
4944.07Lam12_4+5119.43Lam13_4+6679.28Lam14_4+5655.94Lam15_4
+5913.64Lam16_4+6251.86Lam17_4+5595.36Lam18_4+3606.40Lam19_4
+8923.01Lam20_4+11518.68Lam21_4+12598.32Lam22_4+5395.01Lam
23_4+6462.91Lam24_4=11108.24

DMU5_PCF:

8635.01Mu_PCF5-69252.19Lam1_5-140761.31Lam2_5-
113105.4Lam3_5-122719.8Lam4_5-105469.25Lam5_5-
116685.58Lam6_5-165051.71Lam7_5-72655.02Lam8_5-
95551.33Lam9_5-123916.8Lam10_5-114881.57Lam11_5-
115668.57Lam12_5-107717.26Lam13_5-152197.04Lam14_5-
138477.34Lam15_5-147305.07Lam16_5-135362.21Lam17_5-
131330.27Lam18_5-82897.81Lam19_5-153299.97Lam20_5-
210676.69Lam21_5-177158.17Lam22_5-130537.14Lam23_5-
174808.75Lam24_5=-96834.82

DMU5_DLR:

108.30Mu_DLR5+788.80Lam1_5+1347.50Lam2_5+690.00Lam3_5+
1225.00Lam4_5+1191.30Lam5_5+915.60Lam6_5+1442.00Lam7_5+
787.50Lam8_5+840Lam9_5+1316Lam10_5+1012.80Lam11_5+
1519.20Lam12_5+980Lam13_5+1808.40Lam14_5+1842.40Lam15_5+
2105.60Lam16_5+1678.30Lam17_5+1539.60Lam18_5+394.80Lam19_5+
1774.50Lam20_5+1729.20Lam21_5+1700.40Lam22_5+1109.70Lam23_5
+1711.50Lam24_5=1299.60

DMU5_RWK:

3994.00Mu_RWK5+501Lam1_5+5579Lam2_5+5806Lam3_5+
5954Lam4_5+4493Lam5_5+1649Lam6_5+7055Lam7_5+

2709Lam8_5+1559Lam9_5+4882Lam10_5+3274Lam11_5+
6480Lam12_5+4422Lam13_5+17258Lam14_5+15943Lam15_5+
13528Lam16_5+8552Lam17_5+8736Lam18_5+3300Lam19_5+
12159Lam20_5+9297Lam21_5+13519Lam22_5+3149Lam23_5+
13962Lam24_5=8487.00

DMU5_RML:

3398.96Mu_RML5+800.84Lam1_5+6340.26Lam2_5+4874.65Lam3_5+
6141.23Lam4_5+4812.87Lam5_5+4572.68Lam6_5+6752.04Lam7_5+
2897.71Lam8_5+3861.69Lam9_5+5812.54Lam10_5+5610.50Lam11_5+
4944.07Lam12_5+5119.43Lam13_5+6679.28Lam14_5+5655.94Lam15_5
+5913.64Lam16_5+6251.86Lam17_5+5595.36Lam18_5+3606.40Lam19_5
+8923.01Lam20_5+11518.68Lam21_5+12598.32Lam22_5+5395.01Lam
23_5+6462.91Lam24_5=8211.84

DMU6_PCF:

12578.69Mu_PCF6-69252.19Lam1_6-140761.31Lam2_6-
113105.4Lam3_6-122719.8Lam4_6-105469.25Lam5_6-
116685.58Lam6_6-165051.71Lam7_6-72655.02Lam8_6-
95551.33Lam9_6-123916.8Lam10_6-114881.57Lam11_6-
115668.57Lam12_6-107717.26Lam13_6-152197.04Lam14_6-
138477.34Lam15_6-147305.07Lam16_6-135362.21Lam17_6-
131330.27Lam18_6-82897.81Lam19_6-
153299.97Lam20_6-210676.69Lam21_6-177158.17Lam22_6-
130537.14Lam23_6-174808.75Lam24_6=-104106.89

DMU6_DLR:

130.80Mu_DLR6+788.80Lam1_6+1347.50Lam2_6+690.00Lam3_6+
1225.00Lam4_6+1191.30Lam5_6+915.60Lam6_6+1442.00Lam7_6+
787.50Lam8_6+840Lam9_6+1316Lam10_6+1012.80Lam11_6+
1519.20Lam12_6+980Lam13_6+1808.40Lam14_6+1842.40Lam15_6+
2105.60Lam16_6+1678.30Lam17_6+1539.60Lam18_6+394.80Lam19_6+
1774.50Lam20_6+1729.20Lam21_6+1700.40Lam22_6+1109.70Lam23_6
+1711.50Lam24_6=1046.40

DMU6_RWK:

2246.00Mu_RWK6+501Lam1_6+5579Lam2_6+5806Lam3_6+
5954Lam4_6+4493Lam5_6+1649Lam6_6+7055Lam7_6+
2709Lam8_6+1559Lam9_6+4882Lam10_6+3274Lam11_6+
6480Lam12_6+4422Lam13_6+17258Lam14_6+15943Lam15_6+
13528Lam16_6+8552Lam17_6+8736Lam18_6+3300Lam19_6+
12159Lam20_6+9297Lam21_6+13519Lam22_6+3149Lam23_6+
13962Lam24_6=3895.00

DMU6_RML:

3117.27Mu_RML6+800.84Lam1_6+6340.26Lam2_6+4874.65Lam3_6+
6141.23Lam4_6+4812.87Lam5_6+4572.68Lam6_6+6752.04Lam7_6+
2897.71Lam8_6+3861.69Lam9_6+5812.54Lam10_6+5610.50Lam11_6+
4944.07Lam12_6+5119.43Lam13_6+6679.28Lam14_6+5655.94Lam15_6
+5913.64Lam16_6+6251.86Lam17_6+5595.36Lam18_6+3606.40Lam19_6

6+8923.01Lam20_6+11518.68Lam21_6+12598.32Lam22_6+5395.01Lam
23_6+6462.91Lam24_6=7689.95

DMU7_PCF:

8770.80Mu_PCF7-69252.19Lam1_7-140761.31Lam2_7-
13105.4Lam3_7-122719.8Lam4_7-105469.25Lam5_7-
116685.58Lam6_7-165051.71Lam7_7-72655.02Lam8_7-
95551.33Lam9_7-123916.8Lam10_7-114881.57Lam11_7-
115668.57Lam12_7-107717.26Lam13_7-152197.04Lam14_7-
138477.34Lam15_7-147305.07Lam16_7-135362.21Lam17_7-
131330.27Lam18_7-82897.81Lam19_7-153299.97Lam20_7-
210676.69Lam21_7-177158.17Lam22_7-130537.14Lam23_7-
174808.75Lam24_7=-156280.91

DMU7_DLR:

144.20Mu_DLR7+788.80Lam1_7+1347.50Lam2_7+690.00Lam3_7+
1225.00Lam4_7+1191.30Lam5_7+915.60Lam6_7+1442.00Lam7_7+
787.50Lam8_7+840Lam9_7+1316Lam10_7+1012.80Lam11_7+
1519.20Lam12_7+980Lam13_7+1808.40Lam14_7+1842.40Lam15_7+
2105.60Lam16_7+1678.30Lam17_7+1539.60Lam18_7+394.80Lam19_7+
1774.50Lam20_7+1729.20Lam21_7+1700.40Lam22_7+1109.70Lam23_7+
+1711.50Lam24_7=1586.20

DMU7_RWK:

6970.00Mu_RWK7+501Lam1_7+5579Lam2_7+5806Lam3_7+
5954Lam4_7+4493Lam5_7+1649Lam6_7+7055Lam7_7+
2709Lam8_7+1559Lam9_7+4882Lam10_7+3274Lam11_7+
6480Lam12_7+4422Lam13_7+17258Lam14_7+15943Lam15_7+
13528Lam16_7+8552Lam17_7+8736Lam18_7+3300Lam19_7+
12159Lam20_7+9297Lam21_7+13519Lam22_7+3149Lam23_7+
13962Lam24_7=14025.00

DMU7_RML:

4575.18Mu_RML7+800.84Lam1_7+6340.26Lam2_7+4874.65Lam3_7+
6141.23Lam4_7+4812.87Lam5_7+4572.68Lam6_7+6752.04Lam7_7+
2897.71Lam8_7+3861.69Lam9_7+5812.54Lam10_7+5610.50Lam11_7+
4944.07Lam12_7+5119.43Lam13_7+6679.28Lam14_7+5655.94Lam15_7+
+5913.64Lam16_7+6251.86Lam17_7+5595.36Lam18_7+3606.40Lam19_7+
7+8923.01Lam20_7+11518.68Lam21_7+12598.32Lam22_7+5395.01Lam
23_7+6462.91Lam24_7=11327.22

DMU8_PCF:

3902.20Mu_PCF8-69252.19Lam1_8-140761.31Lam2_8-
113105.4Lam3_8-122719.8Lam4_8-105469.25Lam5_8-
116685.58Lam6_8-165051.71Lam7_8-72655.02Lam8_8-
95551.33Lam9_8-123916.8Lam10_8-114881.57Lam11_8-
115668.57Lam12_8-107717.26Lam13_8-152197.04Lam14_8-
138477.34Lam15_8-147305.07Lam16_8-135362.21Lam17_8-
131330.27Lam18_8-82897.81Lam19_8-153299.97Lam20_8-

210676.69Lam21_8-177158.17Lam22_8-130537.14Lam23_8-
174808.75Lam24_8=-68752.82

DMU8_DLR:

450.00Mu_DLR8+788.80Lam1_8+1347.50Lam2_8+690.00Lam3_8+
1225.00Lam4_8+1191.30Lam5_8+915.60Lam6_8+1442.00Lam7_8+
787.50Lam8_8+840Lam9_8+1316Lam10_8+1012.80Lam11_8+
1519.20Lam12_8+980Lam13_8+1808.40Lam14_8+1842.40Lam15_8+
2105.60Lam16_8+1678.30Lam17_8+1539.60Lam18_8+394.80Lam19_8+
1774.50Lam20_8+1729.20Lam21_8+1700.40Lam22_8+1109.70Lam23_8
+1711.50Lam24_8=1237.50

DMU8_RWK:

214.00Mu_RWK8+501Lam1_8+5579Lam2_8+5806Lam3_8+
5954Lam4_8+4493Lam5_8+1649Lam6_8+7055Lam7_8+
2709Lam8_8+1559Lam9_8+4882Lam10_8+3274Lam11_8+
6480Lam12_8+4422Lam13_8+17258Lam14_8+15943Lam15_8+
13528Lam16_8+8552Lam17_8+8736Lam18_8+3300Lam19_8+
12159Lam20_8+9297Lam21_8+13519Lam22_8+3149Lam23_8+
13962Lam24_8=2923.00

DMU8_RML:

1991.03Mu_RML8+800.84Lam1_8+6340.26Lam2_8+4874.65Lam3_8+
6141.23Lam4_8+4812.87Lam5_8+4572.68Lam6_8+6752.04Lam7_8+
2897.71Lam8_8+3861.69Lam9_8+5812.54Lam10_8+5610.50Lam11_8+
4944.07Lam12_8+5119.43Lam13_8+6679.28Lam14_8+5655.94Lam15_8
+5913.64Lam16_8+6251.86Lam17_8+5595.36Lam18_8+3606.40Lam19_
8+8923.01Lam20_8+11518.68Lam21_8+12598.32Lam22_8+5395.01Lam
23_8+6462.91Lam24_8=4888.74

DMU9_PCF:

3219.30Mu_PCF9-69252.19Lam1_9-140761.31Lam2_9-
113105.4Lam3_9-122719.8Lam4_9-105469.25Lam5_9-
116685.58Lam6_9-165051.71Lam7_9-72655.02Lam8_9-
95551.33Lam9_9-123916.8Lam10_9-114881.57Lam11_9-
115668.57Lam12_9-107717.26Lam13_9-152197.04Lam14_9-
138477.34Lam15_9-147305.07Lam16_9-135362.21Lam17_9-
131330.27Lam18_9-82897.81Lam19_9-153299.97Lam20_9-
210676.69Lam21_9-177158.17Lam22_9-130537.14Lam23_9-
174808.75Lam24_9=-92332.03

DMU9_DLR:

120.00Mu_DLR9+788.80Lam1_9+1347.50Lam2_9+690.00Lam3_9+1225.
00Lam4_9+1191.30Lam5_9+915.60Lam6_9+1442.00Lam7_9+
787.50Lam8_9+840Lam9_9+1316Lam10_9+1012.80Lam11_9+
1519.20Lam12_9+980Lam13_9+1808.40Lam14_9+1842.40Lam15_9+
2105.60Lam16_9+1678.30Lam17_9+1539.60Lam18_9+394.80Lam19_9+
1774.50Lam20_9+1729.20Lam21_9+1700.40Lam22_9+1109.70Lam23_9
+1711.50Lam24_9=960

DMU9_RWK:

1512.00Mu_RWK9+501Lam1_9+5579Lam2_9+5806Lam3_9+

5954Lam4_9+4493Lam5_9+1649Lam6_9+7055Lam7_9+
2709Lam8_9+1559Lam9_9+4882Lam10_9+3274Lam11_9+
6480Lam12_9+4422Lam13_9+17258Lam14_9+15943Lam15_9+
13528Lam16_9+8552Lam17_9+8736Lam18_9+3300Lam19_9+
12159Lam20_9+9297Lam21_9+13519Lam22_9+3149Lam23_9+
13962Lam24_9=3071.00

DMU9_RML:

2756.43Mu_RML9+800.84Lam1_9+6340.26Lam2_9+4874.65Lam3_9+
6141.23Lam4_9+4812.87Lam5_9+4572.68Lam6_9+6752.04Lam7_9+
2897.71Lam8_9+3861.69Lam9_9+5812.54Lam10_9+5610.50Lam11_9+
4944.07Lam12_9+5119.43Lam13_9+6679.28Lam14_9+5655.94Lam15_9
+5913.64Lam16_9+6251.86Lam17_9+5595.36Lam18_9+3606.40Lam19_
9+8923.01Lam20_9+11518.68Lam21_9+12598.32Lam22_9+5395.01Lam
23_9+6462.91Lam24_9=6618.13

DMU10_PCF:

5980.00Mu_PCF10-69252.19Lam1_10-140761.31Lam2_10-
113105.4Lam3_10-122719.8Lam4_10-105469.25Lam5_10-
116685.58Lam6_10-165051.71Lam7_10-72655.02Lam8_10-
95551.33Lam9_10-123916.8Lam10_10-114881.57Lam11_10-
115668.57Lam12_10-107717.26Lam13_10-152197.04Lam14_10-
138477.34Lam15_10-147305.07Lam16_10-135362.21Lam17_10-
131330.27Lam18_10-82897.81Lam19_10-153299.97Lam20_10-
210676.69Lam21_10-177158.17Lam22_10-130537.14Lam23_10-
174808.75Lam24_10=-97936.40

DMU10_DLR:

131.60Mu_DLR10+788.80Lam1_10+1347.50Lam2_10+690.00Lam3_10+
1225.00Lam4_10+1191.30Lam5_10+915.60Lam6_10+1442.00Lam7_10+
787.50Lam8_10+840Lam9_10+1316Lam10_10+1012.80Lam11_10+
1519.20Lam12_10+980Lam13_10+1808.40Lam14_10+1842.40Lam15_10
+2105.60Lam16_10+1678.30Lam17_10+1539.60Lam18_10+394.80Lam1
9_10+1774.50Lam20_10+1729.20Lam21_10+1700.40Lam22_10+1109.7
0Lam23_10+1711.50Lam24_10=1447.60

DMU10_RWK:

5178.00Mu_RWK10+501Lam1_10+5579Lam2_10+5806Lam3_10+
5954Lam4_10+4493Lam5_10+1649Lam6_10+7055Lam7_10+
2709Lam8_10+1559Lam9_10+4882Lam10_10+3274Lam11_10+
6480Lam12_10+4422Lam13_10+17258Lam14_10+15943Lam15_10+
13528Lam16_10+8552Lam17_10+8736Lam18_10+3300Lam19_10+
12159Lam20_10+9297Lam21_10+13519Lam22_10+3149Lam23_10+
13962Lam24_10=10060.00

DMU10_RML:

4105.82Mu_RML10+800.84Lam1_10+6340.26Lam2_10+4874.65Lam3_10
+6141.23Lam4_10+4812.87Lam5_10+4572.68Lam6_10+6752.04Lam7_1
0+2897.71Lam8_10+3861.69Lam9_10+5812.54Lam10_10+5610.50Lam1
1_10+4944.07Lam12_10+5119.43Lam13_10+6679.28Lam14_10+5655.9
4Lam15_10+5913.64Lam16_10+6251.86Lam17_10+5595.36Lam18_10+3

606.40Lam19_10+8923.01Lam20_10+11518.68Lam21_10+12598.32Lam
22_10+5395.01Lam23_10+6462.91Lam24_10=9918.36

DMU11_PCF:

108.48Mu_PCF11-69252.19Lam1_11-140761.31Lam2_11-
113105.4Lam3_11-122719.8Lam4_11-105469.25Lam5_11-
116685.58Lam6_11-165051.71Lam7_11-72655.02Lam8_11-
95551.33Lam9_11-123916.8Lam10_11-114881.57Lam11_11-
115668.57Lam12_11-107717.26Lam13_11-152197.04Lam14_11-
138477.34Lam15_11-147305.07Lam16_11-135362.21Lam17_11-
131330.27Lam18_11-82897.81Lam19_11-153299.97Lam20_11-
210676.69Lam21_11-177158.17Lam22_11-130537.14Lam23_11-
174808.75Lam24_11=-114773.09

DMU11_DLR:

126.60Mu_DLR11+788.80Lam1_11+1347.50Lam2_11+690.00Lam3_11+
1225.00Lam4_11+1191.30Lam5_11+915.60Lam6_11+1442.00Lam7_11+
787.50Lam8_11+840Lam9_11+1316Lam10_11+1012.80Lam11_11+
1519.20Lam12_11+980Lam13_11+1808.40Lam14_11+1842.40Lam15_11
+2105.60Lam16_11+1678.30Lam17_11+1539.60Lam18_11+394.80Lam1
9_11+1774.50Lam20_11+1729.20Lam21_11+1700.40Lam22_11+1109.7
0Lam23_11+1711.50Lam24_11=1139.40

DMU11_RWK:

3738.00Mu_RWK11+501Lam1_11+5579Lam2_11+5806Lam3_11+
5954Lam4_11+4493Lam5_11+1649Lam6_11+7055Lam7_11+
2709Lam8_11+1559Lam9_11+4882Lam10_11+3274Lam11_11+
6480Lam12_11+4422Lam13_11+17258Lam14_11+15943Lam15_11+
13528Lam16_11+8552Lam17_11+8736Lam18_11+3300Lam19_11+
12159Lam20_11+9297Lam21_11+13519Lam22_11+3149Lam23_11+
13962Lam24_11=7012.00

DMU11_RML:

3863.17Mu_RML11+800.84Lam1_11+6340.26Lam2_11+4874.65Lam3_11
+6141.23Lam4_11+4812.87Lam5_11+4572.68Lam6_11+6752.04Lam7_1
1+2897.71Lam8_11+3861.69Lam9_11+5812.54Lam10_11+5610.50Lam1
1_11+4944.07Lam12_11+5119.43Lam13_11+6679.28Lam14_11+5655.9
4Lam15_11+5913.64Lam16_11+6251.86Lam17_11+5595.36Lam18_11+3
606.40Lam19_11+8923.01Lam20_11+11518.68Lam21_11+12598.32Lam
22_11+5395.01Lam23_11+6462.91Lam24_11=9473.67

DMU12_PCF:

8185.22Mu_PCF12-69252.19Lam1_12-140761.31Lam2_12-
113105.4Lam3_12-122719.8Lam4_12-105469.25Lam5_12-
116685.58Lam6_12-165051.71Lam7_12-72655.02Lam8_12-
95551.33Lam9_12-123916.8Lam10_12-114881.57Lam11_12-
115668.57Lam12_12-107717.26Lam13_12-152197.04Lam14_12-
138477.34Lam15_12-147305.07Lam16_12-135362.21Lam17_12-
131330.27Lam18_12-82897.81Lam19_12-153299.97Lam20_12-
210676.69Lam21_12-177158.17Lam22_12-130537.14Lam23_12-

174808.75Lam24_12=-107483.35

DMU12_DLR:

126.60Mu_DLR12+788.80Lam1_12+1347.50Lam2_12+690.00Lam3_12+
1225.00Lam4_12+1191.30Lam5_12+915.60Lam6_12+1442.00Lam7_12+
787.50Lam8_12+840Lam9_12+1316Lam10_12+1012.80Lam11_12+
1519.20Lam12_12+980Lam13_12+1808.40Lam14_12+1842.40Lam15_12
+2105.60Lam16_12+1678.30Lam17_12+1539.60Lam18_12+394.80Lam1
9_12+1774.50Lam20_12+1729.20Lam21_12+1700.40Lam22_12+1109.7
0Lam23_12+1711.50Lam24_12=1645.80

DMU12_RWK:

5764.00Mu_RWK12+501Lam1_12+5579Lam2_12+5806Lam3_12+
5954Lam4_12+4493Lam5_12+1649Lam6_12+7055Lam7_12+
2709Lam8_12+1559Lam9_12+4882Lam10_12+3274Lam11_12+
6480Lam12_12+4422Lam13_12+17258Lam14_12+15943Lam15_12+
13528Lam16_12+8552Lam17_12+8736Lam18_12+3300Lam19_12+
12159Lam20_12+9297Lam21_12+13519Lam22_12+3149Lam23_12+
13962Lam24_12=12244.00

DMU12_RML:

3523.28Mu_RML12+800.84Lam1_12+6340.26Lam2_12+4874.65Lam3_12
+6141.23Lam4_12+4812.87Lam5_12+4572.68Lam6_12+6752.04Lam7_1
2+2897.71Lam8_12+3861.69Lam9_12+5812.54Lam10_12+5610.50Lam1
1_12+4944.07Lam12_12+5119.43Lam13_12+6679.28Lam14_12+5655.9
4Lam15_12+5913.64Lam16_12+6251.86Lam17_12+5595.36Lam18_12+3
606.40Lam19_12+8923.01Lam20_12+11518.68Lam21_12+12598.32Lam
22_12+5395.01Lam23_12+6462.91Lam24_12=8467.35

DMU13_PCF:

14673.52Mu_PCF13-69252.19Lam1_13-140761.31Lam2_13-
113105.4Lam3_13-122719.8Lam4_13-105469.25Lam5_13-
116685.58Lam6_13-165051.71Lam7_13-72655.02Lam8_13-
95551.33Lam9_13-123916.8Lam10_13-114881.57Lam11_13-
115668.57Lam12_13-107717.26Lam13_13-152197.04Lam14_13-
138477.34Lam15_13-147305.07Lam16_13-135362.21Lam17_13-
131330.27Lam18_13-82897.81Lam19_13-153299.97Lam20_13-
210676.69Lam21_13-177158.17Lam22_13-130537.14Lam23_13-
174808.75Lam24_13=-93043.74

DMU13_DLR:

122.50Mu_DLR13+788.80Lam1_13+1347.50Lam2_13+690.00Lam3_13+
1225.00Lam4_13+1191.30Lam5_13+915.60Lam6_13+1442.00Lam7_13+
787.50Lam8_13+840Lam9_13+1316Lam10_13+1012.80Lam11_13+
1519.20Lam12_13+980Lam13_13+1808.40Lam14_13+1842.40Lam15_13
+2105.60Lam16_13+1678.30Lam17_13+1539.60Lam18_13+394.80Lam1
9_13+1774.50Lam20_13+1729.20Lam21_13+1700.40Lam22_13+1109.7
0Lam23_13+1711.50Lam24_13=1102.50

DMU13_RWK:

3842.00Mu_RWK13+501Lam1_13+5579Lam2_13+5806Lam3_13+

5954Lam4_13+4493Lam5_13+1649Lam6_13+7055Lam7_13+2709Lam8_13
+1559Lam9_13+4882Lam10_13+3274Lam11_13+6480Lam12_13+4422Lam
13_13+17258Lam14_13+15943Lam15_13+13528Lam16_13+8552Lam17_1
3+8736Lam18_13+3300Lam19_13+12159Lam20_13+9297Lam21_13+1351
9Lam22_13+3149Lam23_13+13962Lam24_13=8264.00

DMU13_RML:

3507.39Mu_RML13+800.84Lam1_13+6340.26Lam2_13+4874.65Lam3_13
+6141.23Lam4_13+4812.87Lam5_13+4572.68Lam6_13+6752.04Lam7_1
3+2897.71Lam8_13+3861.69Lam9_13+5812.54Lam10_13+5610.50Lam1
1_13+4944.07Lam12_13+5119.43Lam13_13+6679.28Lam14_13+5655.9
4Lam15_13+5913.64Lam16_13+6251.86Lam17_13+5595.36Lam18_13+3
606.40Lam19_13+8923.01Lam20_13+11518.68Lam21_13+12598.32Lam
22_13+5395.01Lam23_13+6462.91Lam24_13=8626.82

DMU14_PCF:

25530.94Mu_PCF14-69252.19Lam1_14-140761.31Lam2_14-
113105.4Lam3_14-122719.8Lam4_14-105469.25Lam5_14-
116685.58Lam6_14-165051.71Lam7_14-72655.02Lam8_14-
95551.33Lam9_14-123916.8Lam10_14-114881.57Lam11_14-
115668.57Lam12_14-107717.26Lam13_14-152197.04Lam14_14-
138477.34Lam15_14-147305.07Lam16_14-135362.21Lam17_14-
131330.27Lam18_14-82897.81Lam19_14-153299.97Lam20_14-
210676.69Lam21_14-177158.17Lam22_14-130537.14Lam23_14-
174808.75Lam24_14=-126666.10

DMU14_DLR:

150.70Mu_DLR14+788.80Lam1_14+1347.50Lam2_14+690.00Lam3_14+
1225.00Lam4_14+1191.30Lam5_14+915.60Lam6_14+1442.00Lam7_14+
787.50Lam8_14+840Lam9_14+1316Lam10_14+1012.80Lam11_14+
1519.20Lam12_14+980Lam13_14+1808.40Lam14_14+1842.40Lam15_14
+2105.60Lam16_14+1678.30Lam17_14+1539.60Lam18_14+394.80Lam1
9_14+1774.50Lam20_14+1729.20Lam21_14+1700.40Lam22_14+1109.7
0Lam23_14+1711.50Lam24_14=1959.10

DMU14_RWK:

12592.00Mu_RWK14+501Lam1_14+5579Lam2_14+5806Lam3_14+
5954Lam4_14+4493Lam5_14+1649Lam6_14+7055Lam7_14+
2709Lam8_14+1559Lam9_14+4882Lam10_14+3274Lam11_14+
6480Lam12_14+4422Lam13_14+17258Lam14_14+15943Lam15_14+
13528Lam16_14+8552Lam17_14+8736Lam18_14+3300Lam19_14+
12159Lam20_14+9297Lam21_14+13519Lam22_14+3149Lam23_14+
13962Lam24_14=29850.00

DMU14_RML:

4828.05Mu_RML14+800.84Lam1_14+6340.26Lam2_14+4874.65Lam3_14
+6141.23Lam4_14+4812.87Lam5_14+4572.68Lam6_14+6752.04Lam7_1
4+2897.71Lam8_14+3861.69Lam9_14+5812.54Lam10_14+5610.50Lam1
1_14+4944.07Lam12_14+5119.43Lam13_14+6679.28Lam14_14+5655.9
4Lam15_14+5913.64Lam16_14+6251.86Lam17_14+5595.36Lam18_14+3

606.40Lam19_14+8923.01Lam20_14+11518.68Lam21_14+12598.32Lam
22_14+5395.01Lam23_14+6462.91Lam24_14=11507.33

DMU15_PCF:

11728.73Mu_PCF15-69252.19Lam1_15-140761.31Lam2_15-
113105.4Lam3_15-122719.8Lam4_15-105469.25Lam5_15-
116685.58Lam6_15-165051.71Lam7_15-72655.02Lam8_15-
95551.33Lam9_15-123916.8Lam10_15-114881.57Lam11_15-
115668.57Lam12_15-107717.26Lam13_15-152197.04Lam14_15-
138477.34Lam15_15-147305.07Lam16_15-135362.21Lam17_15-
131330.27Lam18_15-82897.81Lam19_15-153299.97Lam20_15-
210676.69Lam21_15-177158.17Lam22_15-130537.14Lam23_15-
174808.75Lam24_15=-126748.61

DMU15_DLR:

131.60Mu_DLR15+788.80Lam1_15+1347.50Lam2_15+690.00Lam3_15+
1225.00Lam4_15+1191.30Lam5_15+915.60Lam6_15+1442.00Lam7_15+
787.50Lam8_15+840Lam9_15+1316Lam10_15+1012.80Lam11_15+
1519.20Lam12_15+980Lam13_15+1808.40Lam14_15+1842.40Lam15_15
+2105.60Lam16_15+1678.30Lam17_15+1539.60Lam18_15+394.80Lam1
9_15+1774.50Lam20_15+1729.20Lam21_15+1700.40Lam22_15+1109.7
0Lam23_15+1711.50Lam24_15=1974.00

DMU15_RWK:15126.00Mu_RWK15+501Lam1_15+5579Lam2_15+5806Lam3_
15+5954Lam4_15+4493Lam5_15+1649Lam6_15+7055Lam7_15+
2709Lam8_15+1559Lam9_15+4882Lam10_15+3274Lam11_15+
6480Lam12_15+4422Lam13_15+17258Lam14_15+15943Lam15_15+
13528Lam16_15+8552Lam17_15+8736Lam18_15+3300Lam19_15+
12159Lam20_15+9297Lam21_15+13519Lam22_15+3149Lam23_15+
13962Lam24_15=31069.00

DMU15_RML:4082.95Mu_RML15+800.84Lam1_15+6340.26Lam2_15+4874
.65Lam3_15+6141.23Lam4_15+4812.87Lam5_15+4572.68Lam6_15+675
2.04Lam7_15+2897.71Lam8_15+3861.69Lam9_15+5812.54Lam10_15+5
610.50Lam11_15+4944.07Lam12_15+5119.43Lam13_15+6679.28Lam14
_15+5655.94Lam15_15+5913.64Lam16_15+6251.86Lam17_15+5595.36
Lam18_15+3606.40Lam19_15+8923.01Lam20_15+11518.68Lam21_15+1
2598.32Lam22_15+5395.01Lam23_15+6462.91Lam24_15=9738.89

DMU16_PCF:

40843.30Mu_PCF16-69252.19Lam1_16-140761.31Lam2_16-
113105.4Lam3_16-122719.8Lam4_16-105469.25Lam5_16-
116685.58Lam6_16-165051.71Lam7_16-72655.02Lam8_16-
95551.33Lam9_16-123916.8Lam10_16-114881.57Lam11_16-
115668.57Lam12_16-107717.26Lam13_16-152197.04Lam14_16-
138477.34Lam15_16-147305.07Lam16_16-135362.21Lam17_16-
131330.27Lam18_16-82897.81Lam19_16-153299.97Lam20_16-
210676.69Lam21_16-177158.17Lam22_16-130537.14Lam23_16-
174808.75Lam24_16=-106461.77

DMU16_DLR:

131.60Mu_DLR16+788.80Lam1_16+1347.50Lam2_16+690.00Lam3_16+1225.00Lam4_16+1191.30Lam5_16+915.60Lam6_16+1442.00Lam7_16+787.50Lam8_16+840Lam9_16+1316Lam10_16+1012.80Lam11_16+1519.20Lam12_16+980Lam13_16+1808.40Lam14_16+1842.40Lam15_16+2105.60Lam16_16+1678.30Lam17_16+1539.60Lam18_16+394.80Lam19_16+1774.50Lam20_16+1729.20Lam21_16+1700.40Lam22_16+1109.70Lam23_16+1711.50Lam24_16=2237.20

DMU16_RWK:

10102.00Mu_RWK16+501Lam1_16+5579Lam2_16+5806Lam3_16+5954Lam4_16+4493Lam5_16+1649Lam6_16+7055Lam7_16+2709Lam8_16+1559Lam9_16+4882Lam10_16+3274Lam11_16+6480Lam12_16+4422Lam13_16+17258Lam14_16+15943Lam15_16+13528Lam16_16+8552Lam17_16+8736Lam18_16+3300Lam19_16+12159Lam20_16+9297Lam21_16+13519Lam22_16+3149Lam23_16+13962Lam24_16=23630.00

DMU16_RML:

3988.51Mu_RML16+800.84Lam1_16+6340.26Lam2_16+4874.65Lam3_16+6141.23Lam4_16+4812.87Lam5_16+4572.68Lam6_16+6752.04Lam7_16+2897.71Lam8_16+3861.69Lam9_16+5812.54Lam10_16+5610.50Lam11_16+4944.07Lam12_16+5119.43Lam13_16+6679.28Lam14_16+5655.94Lam15_16+5913.64Lam16_16+6251.86Lam17_16+5595.36Lam18_16+3606.40Lam19_16+8923.01Lam20_16+11518.68Lam21_16+12598.32Lam22_16+5395.01Lam23_16+6462.91Lam24_16=9902.14

DMU17_PCF:

31724.67Mu_PCF17-69252.19Lam1_17-140761.31Lam2_17-113105.4Lam3_17-122719.8Lam4_17-105469.25Lam5_17-116685.58Lam6_17-165051.71Lam7_17-72655.02Lam8_17-95551.33Lam9_17-123916.8Lam10_17-114881.57Lam11_17-115668.57Lam12_17-107717.26Lam13_17-152197.04Lam14_17-138477.34Lam15_17-147305.07Lam16_17-135362.21Lam17_17-131330.27Lam18_17-82897.81Lam19_17-153299.97Lam20_17-210676.69Lam21_17-177158.17Lam22_17-130537.14Lam23_17-174808.75Lam24_17=-103637.54

DMU17_DLR:

129.10Mu_DLR17+788.80Lam1_17+1347.50Lam2_17+690.00Lam3_17+1225.00Lam4_17+1191.30Lam5_17+915.60Lam6_17+1442.00Lam7_17+787.50Lam8_17+840Lam9_17+1316Lam10_17+1012.80Lam11_17+1519.20Lam12_17+980Lam13_17+1808.40Lam14_17+1842.40Lam15_17+2105.60Lam16_17+1678.30Lam17_17+1539.60Lam18_17+394.80Lam19_17+1774.50Lam20_17+1729.20Lam21_17+1700.40Lam22_17+1109.70Lam23_17+1711.50Lam24_17=1807.40

DMU17_RWK:

7786.00Mu_RWK17+501Lam1_17+5579Lam2_17+5806Lam3_17+5954Lam4_17+4493Lam5_17+1649Lam6_17+7055Lam7_17+2709Lam8_17+1559Lam9_17+4882Lam10_17+3274Lam11_17+6480Lam12_17+4422Lam13_17+17258Lam14_17+15943Lam15_17+

13528Lam16_17+8552Lam17_17+8736Lam18_17+3300Lam19_17+
12159Lam20_17+9297Lam21_17+13519Lam22_17+3149Lam23_17+
13962Lam24_17=16338.00

DMU17_RML:

4306.89Mu_RML17+800.84Lam1_17+6340.26Lam2_17+4874.65Lam3_17
+6141.23Lam4_17+4812.87Lam5_17+4572.68Lam6_17+6752.04Lam7_1
7+2897.71Lam8_17+3861.69Lam9_17+5812.54Lam10_17+5610.50Lam1
1_17+4944.07Lam12_17+5119.43Lam13_17+6679.28Lam14_17+5655.9
4Lam15_17+5913.64Lam16_17+6251.86Lam17_17+5595.36Lam18_17+3
606.40Lam19_17+8923.01Lam20_17+11518.68Lam21_17+12598.32Lam
22_17+5395.01Lam23_17+6462.91Lam24_17=10558.75

DMU18_PCF:

23262.46Mu_PCF18-69252.19Lam1_18-140761.31Lam2_18-
113105.4Lam3_18-122719.8Lam4_18-105469.25Lam5_18-
116685.58Lam6_18-165051.71Lam7_18-72655.02Lam8_18-
95551.33Lam9_18-123916.8Lam10_18-114881.57Lam11_18-
115668.57Lam12_18-107717.26Lam13_18-152197.04Lam14_18-
138477.34Lam15_18-147305.07Lam16_18-135362.21Lam17_18-
131330.27Lam18_18-82897.81Lam19_18-153299.97Lam20_18-
210676.69Lam21_18-177158.17Lam22_18-130537.14Lam23_18-
174808.75Lam24_18=-108067.81

DMU18_DLR:

128.30Mu_DLR18+788.80Lam1_18+1347.50Lam2_18+690.00Lam3_18+
1225.00Lam4_18+1191.30Lam5_18+915.60Lam6_18+1442.00Lam7_18+
787.50Lam8_18+840Lam9_18+1316Lam10_18+1012.80Lam11_18+
1519.20Lam12_18+980Lam13_18+1808.40Lam14_18+1842.40Lam15_18
+2105.60Lam16_18+1678.30Lam17_18+1539.60Lam18_18+394.80Lam1
9_18+1774.50Lam20_18+1729.20Lam21_18+1700.40Lam22_18+1109.7
0Lam23_18+1711.50Lam24_18=1667.90

DMU18_RWK:

8038.00Mu_RWK18+501Lam1_18+5579Lam2_18+5806Lam3_18+
5954Lam4_18+4493Lam5_18+1649Lam6_18+7055Lam7_18+
2709Lam8_18+1559Lam9_18+4882Lam10_18+3274Lam11_18+
6480Lam12_18+4422Lam13_18+17258Lam14_18+15943Lam15_18+
13528Lam16_18+8552Lam17_18+8736Lam18_18+3300Lam19_18+
12159Lam20_18+9297Lam21_18+13519Lam22_18+3149Lam23_18+
13962Lam24_18=16774.00

DMU18_RML:

3791.08Mu_RML18+800.84Lam1_18+6340.26Lam2_18+4874.65Lam3_18
+6141.23Lam4_18+4812.87Lam5_18+4572.68Lam6_18+6752.04Lam7_1
8+2897.71Lam8_18+3861.69Lam9_18+5812.54Lam10_18+5610.50Lam1
1_18+4944.07Lam12_18+5119.43Lam13_18+6679.28Lam14_18+5655.9
4Lam15_18+5913.64Lam16_18+6251.86Lam17_18+5595.36Lam18_18+3
606.40Lam19_18+8923.01Lam20_18+11518.68Lam21_18+12598.32Lam
22_18+5395.01Lam23_18+6462.91Lam24_18=9386.44

DMU19_PCF:

340.73Mu_PCF19-69252.19Lam1_19-140761.31Lam2_19-13105.4Lam3_19-122719.8Lam4_19-105469.25Lam5_19-116685.58Lam6_19-165051.71Lam7_19-72655.02Lam8_19-95551.33Lam9_19-123916.8Lam10_19-114881.57Lam11_19-115668.57Lam12_19-107717.26Lam13_19-152197.04Lam14_19-138477.34Lam15_19-147305.07Lam16_19-135362.21Lam17_19-131330.27Lam18_19-82897.81Lam19_19-153299.97Lam20_19-210676.69Lam21_19-177158.17Lam22_19-130537.14Lam23_19-174808.75Lam24_19=-82557.08

DMU19_DLR:

65.80Mu_DLR19+788.80Lam1_19+1347.50Lam2_19+690.00Lam3_19+1225.00Lam4_19+1191.30Lam5_19+915.60Lam6_19+1442.00Lam7_19+787.50Lam8_19+840Lam9_19+1316Lam10_19+1012.80Lam11_19+1519.20Lam12_19+980Lam13_19+1808.40Lam14_19+1842.40Lam15_19+2105.60Lam16_19+1678.30Lam17_19+1539.60Lam18_19+394.80Lam19_19+1774.50Lam20_19+1729.20Lam21_19+1700.40Lam22_19+1109.70Lam23_19+1711.50Lam24_19=460.60

DMU19_RWK:

3524.00Mu_RWK19+501Lam1_19+5579Lam2_19+5806Lam3_19+5954Lam4_19+4493Lam5_19+1649Lam6_19+7055Lam7_19+2709Lam8_19+1559Lam9_19+4882Lam10_19+3274Lam11_19+6480Lam12_19+4422Lam13_19+17258Lam14_19+15943Lam15_19+13528Lam16_19+8552Lam17_19+8736Lam18_19+3300Lam19_19+12159Lam20_19+9297Lam21_19+13519Lam22_19+3149Lam23_19+13962Lam24_19=6824.00

DMU19_RML:

2519.63Mu_RML19+800.84Lam1_19+6340.26Lam2_19+4874.65Lam3_19+6141.23Lam4_19+4812.87Lam5_19+4572.68Lam6_19+6752.04Lam7_19+2897.71Lam8_19+3861.69Lam9_19+5812.54Lam10_19+5610.50Lam11_19+4944.07Lam12_19+5119.43Lam13_19+6679.28Lam14_19+5655.94Lam15_19+5913.64Lam16_19+6251.86Lam17_19+5595.36Lam18_19+3606.40Lam19_19+8923.01Lam20_19+11518.68Lam21_19+12598.32Lam22_19+5395.01Lam23_19+6462.91Lam24_19=6126.03

DMU20_PCF:

4109.21Mu_PCF20-69252.19Lam1_20-140761.31Lam2_20-113105.4Lam3_20-122719.8Lam4_20-105469.25Lam5_20-116685.58Lam6_20-165051.71Lam7_20-72655.02Lam8_20-95551.33Lam9_20-123916.8Lam10_20-114881.57Lam11_20-115668.57Lam12_20-107717.26Lam13_20-152197.04Lam14_20-138477.34Lam15_20-147305.07Lam16_20-135362.21Lam17_20-131330.27Lam18_20-82897.81Lam19_20-153299.97Lam20_20-210676.69Lam21_20-177158.17Lam22_20-130537.14Lam23_20-174808.75Lam24_20=-149190.76

DMU20_DLR:

118.30Mu_DLR20+788.80Lam1_20+1347.50Lam2_20+690.00Lam3_20+

1225.00Lam4_20+1191.30Lam5_20+915.60Lam6_20+1442.00Lam7_20+787.50Lam8_20+840Lam9_20+1316Lam10_20+1012.80Lam11_20+1519.20Lam12_20+980Lam13_20+1808.40Lam14_20+1842.40Lam15_20+2105.60Lam16_20+1678.30Lam17_20+1539.60Lam18_20+394.80Lam19_20+1774.50Lam20_20+1729.20Lam21_20+1700.40Lam22_20+1109.70Lam23_20+1711.50Lam24_20=1892.80

DMU20_RWK:

10056.00Mu_RWK20+501Lam1_20+5579Lam2_20+5806Lam3_20+5954Lam4_20+4493Lam5_20+1649Lam6_20+7055Lam7_20+2709Lam8_20+1559Lam9_20+4882Lam10_20+3274Lam11_20+6480Lam12_20+4422Lam13_20+17258Lam14_20+15943Lam15_20+13528Lam16_20+8552Lam17_20+8736Lam18_20+3300Lam19_20+12159Lam20_20+9297Lam21_20+13519Lam22_20+3149Lam23_20+13962Lam24_20=22215.00

DMU20_RML:

6155.00Mu_RML20+800.84Lam1_20+6340.26Lam2_20+4874.65Lam3_20+6141.23Lam4_20+4812.87Lam5_20+4572.68Lam6_20+6752.04Lam7_20+2897.71Lam8_20+3861.69Lam9_20+5812.54Lam10_20+5610.50Lam11_20+4944.07Lam12_20+5119.43Lam13_20+6679.28Lam14_20+5655.94Lam15_20+5913.64Lam16_20+6251.86Lam17_20+5595.36Lam18_20+3606.40Lam19_20+8923.01Lam20_20+11518.68Lam21_20+12598.32Lam22_20+5395.01Lam23_20+6462.91Lam24_20=15078.00

DMU21_PCF:

94794.80Mu_PCF21-69252.19Lam1_21-140761.31Lam2_21-113105.4Lam3_21-122719.8Lam4_21-105469.25Lam5_21-116685.58Lam6_21-165051.71Lam7_21-72655.02Lam8_21-95551.33Lam9_21-123916.8Lam10_21-114881.57Lam11_21-115668.57Lam12_21-107717.26Lam13_21-152197.04Lam14_21-138477.34Lam15_21-147305.07Lam16_21-135362.21Lam17_21-131330.27Lam18_21-82897.81Lam19_21-153299.97Lam20_21-210676.69Lam21_21-177158.17Lam22_21-130537.14Lam23_21-174808.75Lam24_21=-115881.89

DMU21_DLR:

144.10Mu_DLR21+788.80Lam1_21+1347.50Lam2_21+690.00Lam3_21+1225.00Lam4_21+1191.30Lam5_21+915.60Lam6_21+1442.00Lam7_21+787.50Lam8_21+840Lam9_21+1316Lam10_21+1012.80Lam11_21+1519.20Lam12_21+980Lam13_21+1808.40Lam14_21+1842.40Lam15_21+2105.60Lam16_21+1678.30Lam17_21+1539.60Lam18_21+394.80Lam19_21+1774.50Lam20_21+1729.20Lam21_21+1700.40Lam22_21+1109.70Lam23_21+1711.50Lam24_21=1873.30

DMU21_RWK:

9568.00Mu_RWK21+501Lam1_21+5579Lam2_21+5806Lam3_21+5954Lam4_21+4493Lam5_21+1649Lam6_21+7055Lam7_21+2709Lam8_21+1559Lam9_21+4882Lam10_21+3274Lam11_21+6480Lam12_21+4422Lam13_21+17258Lam14_21+15943Lam15_21+13528Lam16_21+8552Lam17_21+8736Lam18_21+3300Lam19_21+

12159Lam20_21+9297Lam21_21+13519Lam22_21+3149Lam23_21+
13962Lam24_21=18865.00

DMU21_RML:

8228.44Mu_RML21+800.84Lam1_21+6340.26Lam2_21+4874.65Lam3_21
+6141.23Lam4_21+4812.87Lam5_21+4572.68Lam6_21+6752.04Lam7_2
1+2897.71Lam8_21+3861.69Lam9_21+5812.54Lam10_21+5610.50Lam1
1_21+4944.07Lam12_21+5119.43Lam13_21+6679.28Lam14_21+5655.9
4Lam15_21+5913.64Lam16_21+6251.86Lam17_21+5595.36Lam18_21+3
606.40Lam19_21+8923.01Lam20_21+11518.68Lam21_21+12598.32Lam
22_21+5395.01Lam23_21+6462.91Lam24_21=19747.12

DMU22_PCF:

66241.03Mu_PCF22-69252.19Lam1_22-140761.31Lam2_22-
113105.4Lam3_22-122719.8Lam4_22-105469.25Lam5_22-
116685.58Lam6_22-165051.71Lam7_22-72655.02Lam8_22-
95551.33Lam9_22-123916.8Lam10_22-114881.57Lam11_22-
115668.57Lam12_22-107717.26Lam13_22-152197.04Lam14_22-
138477.34Lam15_22-147305.07Lam16_22-135362.21Lam17_22-
131330.27Lam18_22-82897.81Lam19_22-153299.97Lam20_22-
210676.69Lam21_22-177158.17Lam22_22-130537.14Lam23_22-
174808.75Lam24_22=-110917.14

DMU22_DLR:

141.70Mu_DLR22+788.80Lam1_22+1347.50Lam2_22+690.00Lam3_22+
1225.00Lam4_22+1191.30Lam5_22+915.60Lam6_22+1442.00Lam7_22+
787.50Lam8_22+840Lam9_22+1316Lam10_22+1012.80Lam11_22+
1519.20Lam12_22+980Lam13_22+1808.40Lam14_22+1842.40Lam15_22
+2105.60Lam16_22+1678.30Lam17_22+1539.60Lam18_22+394.80Lam1
9_22+1774.50Lam20_22+1729.20Lam21_22+1700.40Lam22_22+1109.7
0Lam23_22+1711.50Lam24_22=1842.10

DMU22_RWK:

11508.00Mu_RWK22+501Lam1_22+5579Lam2_22+5806Lam3_22+
5954Lam4_22+4493Lam5_22+1649Lam6_22+7055Lam7_22+
2709Lam8_22+1559Lam9_22+4882Lam10_22+3274Lam11_22+
6480Lam12_22+4422Lam13_22+17258Lam14_22+15943Lam15_22+
13528Lam16_22+8552Lam17_22+8736Lam18_22+3300Lam19_22+
12159Lam20_22+9297Lam21_22+13519Lam22_22+3149Lam23_22+
13962Lam24_22=25027.00

DMU22_RML:

8999.52Mu_RML22+800.84Lam1_22+6340.26Lam2_22+4874.65Lam3_22
+6141.23Lam4_22+4812.87Lam5_22+4572.68Lam6_22+6752.04Lam7_2
2+2897.71Lam8_22+3861.69Lam9_22+5812.54Lam10_22+5610.50Lam1
1_22+4944.07Lam12_22+5119.43Lam13_22+6679.28Lam14_22+5655.9
4Lam15_22+5913.64Lam16_22+6251.86Lam17_22+5595.36Lam18_22+3
606.40Lam19_22+8923.01Lam20_22+11518.68Lam21_22+12598.32Lam
22_22+5395.01Lam23_22+6462.91Lam24_22=21597.84

DMU23_PCF:

7308.01Mu_PCF23-69252.19Lam1_23-140761.31Lam2_23-
113105.4Lam3_23-122719.8Lam4_23-105469.25Lam5_23-
116685.58Lam6_23-165051.71Lam7_23-72655.02Lam8_23-
95551.33Lam9_23-123916.8Lam10_23-114881.57Lam11_23-
115668.57Lam12_23-107717.26Lam13_23-152197.04Lam14_23-
138477.34Lam15_23-147305.07Lam16_23-135362.21Lam17_23-
131330.27Lam18_23-82897.81Lam19_23-153299.97Lam20_23-
210676.69Lam21_23-177158.17Lam22_23-130537.14Lam23_23-
174808.75Lam24_23=-123229.13

DMU23_DLR:

123.30Mu_DLR23+788.80Lam1_23+1347.50Lam2_23+690.00Lam3_23+
1225.00Lam4_23+1191.30Lam5_23+915.60Lam6_23+1442.00Lam7_23+
787.50Lam8_23+840Lam9_23+1316Lam10_23+1012.80Lam11_23+
1519.20Lam12_23+980Lam13_23+1808.40Lam14_23+1842.40Lam15_23+
+2105.60Lam16_23+1678.30Lam17_23+1539.60Lam18_23+394.80Lam1
9_23+1774.50Lam20_23+1729.20Lam21_23+1700.40Lam22_23+1109.7
0Lam23_23+1711.50Lam24_23=1233.00

DMU23_RWK:

3070.00Mu_RWK23+501Lam1_23+5579Lam2_23+5806Lam3_23+
5954Lam4_23+4493Lam5_23+1649Lam6_23+7055Lam7_23+
2709Lam8_23+1559Lam9_23+4882Lam10_23+3274Lam11_23+
6480Lam12_23+4422Lam13_23+17258Lam14_23+15943Lam15_23+
13528Lam16_23+8552Lam17_23+8736Lam18_23+3300Lam19_23+
12159Lam20_23+9297Lam21_23+13519Lam22_23+3149Lam23_23+
13962Lam24_23=6219.00

DMU23_RML:

3884.67Mu_RML23+800.84Lam1_23+6340.26Lam2_23+4874.65Lam3_23
+6141.23Lam4_23+4812.87Lam5_23+4572.68Lam6_23+6752.04Lam7_2
3+2897.71Lam8_23+3861.69Lam9_23+5812.54Lam10_23+5610.50Lam1
1_23+4944.07Lam12_23+5119.43Lam13_23+6679.28Lam14_23+5655.9
4Lam15_23+5913.64Lam16_23+6251.86Lam17_23+5595.36Lam18_23+3
606.40Lam19_23+8923.01Lam20_23+11518.68Lam21_23+12598.32Lam
22_23+5395.01Lam23_23+6462.91Lam24_23=9279.68

DMU24_PCF:

6117.05Mu_PCF24-69252.19Lam1_24-140761.31Lam2_24-
113105.4Lam3_24-122719.8Lam4_24-105469.25Lam5_24-
116685.58Lam6_24-165051.71Lam7_24-72655.02Lam8_24-
95551.33Lam9_24-123916.8Lam10_24-114881.57Lam11_24-
115668.57Lam12_24-107717.26Lam13_24-152197.04Lam14_24-
138477.34Lam15_24-147305.07Lam16_24-135362.21Lam17_24-
131330.27Lam18_24-82897.81Lam19_24-153299.97Lam20_24-
210676.69Lam21_24-177158.17Lam22_24-130537.14Lam23_24-
174808.75Lam24_24=-168691.70

DMU24_DLR:

114.10Mu_DLR24+788.80Lam1_24+1347.50Lam2_24+690.00Lam3_24+

1225.00Lam4_24+1191.30Lam5_24+915.60Lam6_24+1442.00Lam7_24+787.50Lam8_24+840Lam9_24+1316Lam10_24+1012.80Lam11_24+1519.20Lam12_24+980Lam13_24+1808.40Lam14_24+1842.40Lam15_24+2105.60Lam16_24+1678.30Lam17_24+1539.60Lam18_24+394.80Lam19_24+1774.50Lam20_24+1729.20Lam21_24+1700.40Lam22_24+1109.70Lam23_24+1711.50Lam24_24=1825.60

DMU24_RWK:

14608.00Mu_RWK24+501Lam1_24+5579Lam2_24+5806Lam3_24+5954Lam4_24+4493Lam5_24+1649Lam6_24+7055Lam7_24+2709Lam8_24+1559Lam9_24+4882Lam10_24+3274Lam11_24+6480Lam12_24+4422Lam13_24+17258Lam14_24+15943Lam15_24+13528Lam16_24+8552Lam17_24+8736Lam18_24+3300Lam19_24+12159Lam20_24+9297Lam21_24+13519Lam22_24+3149Lam23_24+13962Lam24_24=28570.00

DMU24_RML:

4449.68Mu_RML24+800.84Lam1_24+6340.26Lam2_24+4874.65Lam3_24+6141.23Lam4_24+4812.87Lam5_24+4572.68Lam6_24+6752.04Lam7_24+2897.71Lam8_24+3861.69Lam9_24+5812.54Lam10_24+5610.50Lam11_24+4944.07Lam12_24+5119.43Lam13_24+6679.28Lam14_24+5655.94Lam15_24+5913.64Lam16_24+6251.86Lam17_24+5595.36Lam18_24+3606.40Lam19_24+8923.01Lam20_24+11518.68Lam21_24+12598.32Lam22_24+5395.01Lam23_24+6462.91Lam24_24=10912.59

GT_PCF:

777290.45Mu_PCF-69252.19Lam1_1-140761.31Lam2_1-113105.4Lam3_1-122719.8Lam4_1-105469.25Lam5_1-116685.58Lam6_1-165051.71Lam7_1-72655.02Lam8_1-95551.33Lam9_1-123916.8Lam10_1-114881.57Lam11_1-115668.57Lam12_1-107717.26Lam13_1-152197.04Lam14_1-138477.34Lam15_1-147305.07Lam16_1-135362.21Lam17_1-131330.27Lam18_1-82897.81Lam19_1-153299.97Lam20_1-210676.69Lam21_1-177158.17Lam22_1-130537.14Lam23_1-174808.75Lam24_1-69252.19Lam1_2-140761.31Lam2_2-113105.4Lam3_2-122719.8Lam4_2-105469.25Lam5_2-116685.58Lam6_2-165051.71Lam7_2-72655.02Lam8_2-95551.33Lam9_2-123916.8Lam10_2-114881.57Lam11_2-115668.57Lam12_2-107717.26Lam13_2-152197.04Lam14_2-138477.34Lam15_2-147305.07Lam16_2-135362.21Lam17_2-131330.27Lam18_2-82897.81Lam19_2-153299.97Lam20_2-210676.69Lam21_2-177158.17Lam22_2-130537.14Lam23_2-174808.75Lam24_2-69252.19Lam1_3-140761.31Lam2_3-113105.4Lam3_3-122719.8Lam4_3-105469.25Lam5_3-116685.58Lam6_3-165051.71Lam7_3-72655.02Lam8_3-95551.33Lam9_3-123916.8Lam10_3-114881.57Lam11_3-115668.57Lam12_3-107717.26Lam13_3-152197.04Lam14_3-138477.34Lam15_3-

147305.07Lam16_3-135362.21Lam17_3-131330.27Lam18_3-
82897.81Lam19_3-153299.97Lam20_3-210676.69Lam21_3-
177158.17Lam22_3-130537.14Lam23_3-174808.75Lam24_3-
69252.19Lam1_4-140761.31Lam2_4-113105.4Lam3_4-
122719.8Lam4_4-105469.25Lam5_4-116685.58Lam6_4-
165051.71Lam7_4-72655.02Lam8_4-95551.33Lam9_4-
123916.8Lam10_4-114881.57Lam11_4-115668.57Lam12_4-
107717.26Lam13_4-152197.04Lam14_4-138477.34Lam15_4-
147305.07Lam16_4-135362.21Lam17_4-131330.27Lam18_4-
82897.81Lam19_4-153299.97Lam20_4-210676.69Lam21_4-
177158.17Lam22_4-130537.14Lam23_4-174808.75Lam24_4-
69252.19Lam1_5-140761.31Lam2_5-113105.4Lam3_5-
122719.8Lam4_5-105469.25Lam5_5-116685.58Lam6_5-
165051.71Lam7_5-72655.02Lam8_5-95551.33Lam9_5-
123916.8Lam10_5-114881.57Lam11_5-115668.57Lam12_5-
107717.26Lam13_5-152197.04Lam14_5-138477.34Lam15_5-
147305.07Lam16_5-135362.21Lam17_5-131330.27Lam18_5-
82897.81Lam19_5-153299.97Lam20_5-210676.69Lam21_5-
177158.17Lam22_5-130537.14Lam23_5-174808.75Lam24_5-
69252.19Lam1_6-140761.31Lam2_6-113105.4Lam3_6-
122719.8Lam4_6-105469.25Lam5_6-116685.58Lam6_6-
165051.71Lam7_6-72655.02Lam8_6-95551.33Lam9_6-
123916.8Lam10_6-114881.57Lam11_6-115668.57Lam12_6-
107717.26Lam13_6-152197.04Lam14_6-138477.34Lam15_6-
147305.07Lam16_6-135362.21Lam17_6-131330.27Lam18_6-
82897.81Lam19_6-153299.97Lam20_6-210676.69Lam21_6-
177158.17Lam22_6-130537.14Lam23_6-174808.75Lam24_6-
69252.19Lam1_7-140761.31Lam2_7-113105.4Lam3_7-
122719.8Lam4_7-105469.25Lam5_7-116685.58Lam6_7-
165051.71Lam7_7-72655.02Lam8_7-95551.33Lam9_7-
123916.8Lam10_7-114881.57Lam11_7-115668.57Lam12_7-
107717.26Lam13_7-152197.04Lam14_7-138477.34Lam15_7-
147305.07Lam16_7-135362.21Lam17_7-131330.27Lam18_7-
82897.81Lam19_7-153299.97Lam20_7-210676.69Lam21_7-
177158.17Lam22_7-130537.14Lam23_7-174808.75Lam24_7-
69252.19Lam1_8-140761.31Lam2_8-113105.4Lam3_8-
122719.8Lam4_8-105469.25Lam5_8-116685.58Lam6_8-
165051.71Lam7_8-72655.02Lam8_8-95551.33Lam9_8-
123916.8Lam10_8-114881.57Lam11_8-
115668.57Lam12_8-107717.26Lam13_8-152197.04Lam14_8-
138477.34Lam15_8-147305.07Lam16_8-135362.21Lam17_8-
131330.27Lam18_8-82897.81Lam19_8-153299.97Lam20_8-
210676.69Lam21_8-177158.17Lam22_8-130537.14Lam23_8-
174808.75Lam24_8-
69252.19Lam1_9-140761.31Lam2_9-113105.4Lam3_9-
122719.8Lam4_9-105469.25Lam5_9-116685.58Lam6_9-
165051.71Lam7_9-72655.02Lam8_9-95551.33Lam9_9-

123916.8Lam10_9-114881.57Lam11_9-115668.57Lam12_9-
107717.26Lam13_9-152197.04Lam14_9-138477.34Lam15_9-
147305.07Lam16_9-135362.21Lam17_9-131330.27Lam18_9-
82897.81Lam19_9-153299.97Lam20_9-210676.69Lam21_9-
177158.17Lam22_9-130537.14Lam23_9-174808.75Lam24_9-
69252.19Lam1_10-140761.31Lam2_10-113105.4Lam3_10-
122719.8Lam4_10-105469.25Lam5_10-116685.58Lam6_10-
165051.71Lam7_10-72655.02Lam8_10-95551.33Lam9_10-
123916.8Lam10_10-114881.57Lam11_10-115668.57Lam12_10-
107717.26Lam13_10-152197.04Lam14_10-138477.34Lam15_10-
147305.07Lam16_10-135362.21Lam17_10-131330.27Lam18_10-
82897.81Lam19_10-153299.97Lam20_10-210676.69Lam21_10-
177158.17Lam22_10-130537.14Lam23_10-174808.75Lam24_10-
69252.19Lam1_11-140761.31Lam2_11-113105.4Lam3_11-
122719.8Lam4_11-105469.25Lam5_11-116685.58Lam6_11-
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788.80Lam1_21+1347.50Lam2_21+690.00Lam3_21+1225.00Lam4_21+1191.30Lam5_21+915.60Lam6_21+1442.00Lam7_21+787.50Lam8_21+840Lam9_21+1316Lam10_21+1012.80Lam11_21+1519.20Lam12_21+980Lam13_21+1808.40Lam14_21+1842.40Lam15_21+2105.60Lam16_21+1678.30Lam17_21+1539.60Lam18_21+394.80Lam19_21+1774.50Lam20_21+1729.20Lam21_21+1700.40Lam22_21+1109.70Lam23_21+1711.50Lam24_21+

788.80Lam1_22+1347.50Lam2_22+690.00Lam3_22+1225.00Lam4_22+1191.30Lam5_22+915.60Lam6_22+1442.00Lam7_22+787.50Lam8_22+840Lam9_22+1316Lam10_22+1012.80Lam11_22+1519.20Lam12_22+980Lam13_22+1808.40Lam14_22+1842.40Lam15_22+2105.60Lam16_22+1678.30Lam17_22+1539.60Lam18_22+394.80Lam19_22+1774.50Lam20_22+1729.20Lam21_22+1700.40Lam22_22+1109.70Lam23_22+1711.50Lam24_22+

788.80Lam1_23+1347.50Lam2_23+690.00Lam3_23+1225.00Lam4_23+191.30Lam5_23+915.60Lam6_23+1442.00Lam7_23+787.50Lam8_23+840Lam9_23+1316Lam10_23+1012.80Lam11_23+1519.20Lam12_23+980Lam13_23+1808.40Lam14_23+1842.40Lam15_23+2105.60Lam16_23+1678.30Lam17_23+1539.60Lam18_23+394.80Lam19_23+1774.50Lam20_23+1729.20Lam21_23+1700.40Lam22_23+1109.70Lam23_23+1711.50Lam24_23+788.80Lam1_24+1347.50Lam2_24+690.00Lam3_24+1225.00Lam4_24+191.30Lam5_24+915.60Lam6_24+1442.00Lam7_24+787.50Lam8_24+840Lam9_24+1316Lam10_24+1012.80Lam11_24+1519.20Lam12_24+980Lam13_24+1808.40Lam14_24+1842.40Lam15_24+2105.60Lam16_24+1678.30Lam17_24+1539.60Lam18_24+394.80Lam19_24+1774.50Lam20_24+1729.20Lam21_24+1700.40Lam22_24+1109.70Lam23_24+1711.50Lam24_24=34747.90

GT_RWK:

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2709Lam8_5+1559Lam9_5+4882Lam10_5+3274Lam11_5+
6480Lam12_5+4422Lam13_5+17258Lam14_5+15943Lam15_5+
13528Lam16_5+8552Lam17_5+8736Lam18_5+3300Lam19_5+
12159Lam20_5+9297Lam21_5+13519Lam22_5+3149Lam23_5+
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13528Lam16_7+8552Lam17_7+8736Lam18_7+3300Lam19_7+
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13962Lam24_8+
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6480Lam12_9+4422Lam13_9+17258Lam14_9+15943Lam15_9+
13528Lam16_9+8552Lam17_9+8736Lam18_9+3300Lam19_9+
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13962Lam24_9+
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5954Lam4_10+4493Lam5_10+1649Lam6_10+7055Lam7_10+
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13528Lam16_10+8552Lam17_10+8736Lam18_10+3300Lam19_10+
12159Lam20_10+9297Lam21_10+13519Lam22_10+3149Lam23_10+
13962Lam24_10+
501Lam1_11+5579Lam2_11+5806Lam3_11+
5954Lam4_11+4493Lam5_11+1649Lam6_11+7055Lam7_11+
2709Lam8_11+1559Lam9_11+4882Lam10_11+3274Lam11_11+
6480Lam12_11+4422Lam13_11+17258Lam14_11+15943Lam15_11+
13528Lam16_11+8552Lam17_11+8736Lam18_11+3300Lam19_11+
12159Lam20_11+9297Lam21_11+13519Lam22_11+3149Lam23_11+
13962Lam24_11+

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12159Lam20_12+9297Lam21_12+13519Lam22_12+3149Lam23_12+
13962Lam24_12+
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12159Lam20_13+9297Lam21_13+13519Lam22_13+3149Lam23_13+
13962Lam24_13+
501Lam1_14+5579Lam2_14+5806Lam3_14+
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6480Lam12_14+4422Lam13_14+17258Lam14_14+15943Lam15_14+
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13962Lam24_14+
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 501Lam1_19+5579Lam2_19+5806Lam3_19+
 5954Lam4_19+4493Lam5_19+1649Lam6_19+7055Lam7_19+
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 6480Lam12_19+4422Lam13_19+17258Lam14_19+15943Lam15_19+
 13528Lam16_19+8552Lam17_19+8736Lam18_19+3300Lam19_19+
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 13962Lam24_19+
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 5954Lam4_20+4493Lam5_20+1649Lam6_20+7055Lam7_20+
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 6480Lam12_20+4422Lam13_20+17258Lam14_20+15943Lam15_20+
 13528Lam16_20+8552Lam17_20+8736Lam18_20+3300Lam19_20+
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 501Lam1_21+5579Lam2_21+5806Lam3_21+
 5954Lam4_21+4493Lam5_21+1649Lam6_21+7055Lam7_21+
 2709Lam8_21+1559Lam9_21+4882Lam10_21+3274Lam11_21+
 6480Lam12_21+4422Lam13_21+17258Lam14_21+15943Lam15_21+
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 13962Lam24_21+
 501Lam1_22+5579Lam2_22+5806Lam3_22+
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 2709Lam8_22+1559Lam9_22+4882Lam10_22+3274Lam11_22+
 6480Lam12_22+4422Lam13_22+17258Lam14_22+15943Lam15_22+
 13528Lam16_22+8552Lam17_22+8736Lam18_22+3300Lam19_22+
 12159Lam20_22+9297Lam21_22+13519Lam22_22+3149Lam23_22+
 13962Lam24_22+
 501Lam1_23+5579Lam2_23+5806Lam3_23+
 5954Lam4_23+4493Lam5_23+1649Lam6_23+7055Lam7_23+
 2709Lam8_23+1559Lam9_23+4882Lam10_23+3274Lam11_23+
 6480Lam12_23+4422Lam13_23+17258Lam14_23+15943Lam15_23+
 13528Lam16_23+8552Lam17_23+8736Lam18_23+3300Lam19_23+
 12159Lam20_23+9297Lam21_23+13519Lam22_23+3149Lam23_23+
 13962Lam24_23+
 501Lam1_24+5579Lam2_24+5806Lam3_24+
 5954Lam4_24+4493Lam5_24+1649Lam6_24+7055Lam7_24+
 2709Lam8_24+1559Lam9_24+4882Lam10_24+3274Lam11_24+
 6480Lam12_24+4422Lam13_24+17258Lam14_24+15943Lam15_24+
 13528Lam16_24+8552Lam17_24+8736Lam18_24+3300Lam19_24+
 12159Lam20_24+9297Lam21_24+13519Lam22_24+3149Lam23_24+
 13962Lam24_24=333474.00

GT_RML:

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2897.71Lam8_1+3861.69Lam9_1+5812.54Lam10_1+5610.50Lam11_1+
4944.07Lam12_1+5119.43Lam13_1+6679.28Lam14_1+5655.94Lam15_1
+5913.64Lam16_1+6251.86Lam17_1+5595.36Lam18_1+3606.40Lam19_
1+8923.01Lam20_1+11518.68Lam21_1+12598.32Lam22_1+5395.01Lam
23_1+6462.91Lam24_1+
800.84Lam1_2+6340.26Lam2_2+4874.65Lam3_2+
6141.23Lam4_2+4812.87Lam5_2+4572.68Lam6_2+6752.04Lam7_2+
2897.71Lam8_2+3861.69Lam9_2+5812.54Lam10_2+5610.50Lam11_2+
4944.07Lam12_2+5119.43Lam13_2+6679.28Lam14_2+5655.94Lam15_2
+5913.64Lam16_2+6251.86Lam17_2+5595.36Lam18_2+3606.40Lam19_
2+8923.01Lam20_2+11518.68Lam21_2+12598.32Lam22_2+5395.01Lam
23_2+6462.91Lam24_2+
800.84Lam1_3+6340.26Lam2_3+4874.65Lam3_3+
6141.23Lam4_3+4812.87Lam5_3+4572.68Lam6_3+6752.04Lam7_3+
2897.71Lam8_3+3861.69Lam9_3+5812.54Lam10_3+5610.50Lam11_3+
4944.07Lam12_3+5119.43Lam13_3+6679.28Lam14_3+5655.94Lam15_3
+5913.64Lam16_3+6251.86Lam17_3+5595.36Lam18_3+3606.40Lam19_
3+8923.01Lam20_3+11518.68Lam21_3+12598.32Lam22_3+5395.01Lam
23_3+6462.91Lam24_3+
800.84Lam1_4+6340.26Lam2_4+4874.65Lam3_4+
6141.23Lam4_4+4812.87Lam5_4+4572.68Lam6_4+6752.04Lam7_4+
2897.71Lam8_4+3861.69Lam9_4+5812.54Lam10_4+5610.50Lam11_4+
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+5913.64Lam16_4+6251.86Lam17_4+5595.36Lam18_4+3606.40Lam19_
4+8923.01Lam20_4+11518.68Lam21_4+12598.32Lam22_4+5395.01Lam
23_4+6462.91Lam24_4+
800.84Lam1_5+6340.26Lam2_5+4874.65Lam3_5+
6141.23Lam4_5+4812.87Lam5_5+4572.68Lam6_5+6752.04Lam7_5+
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+5913.64Lam16_5+6251.86Lam17_5+5595.36Lam18_5+3606.40Lam19_
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23_5+6462.91Lam24_5+
800.84Lam1_6+6340.26Lam2_6+4874.65Lam3_6+
6141.23Lam4_6+4812.87Lam5_6+4572.68Lam6_6+6752.04Lam7_6+
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4944.07Lam12_6+5119.43Lam13_6+6679.28Lam14_6+5655.94Lam15_6
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23_6+6462.91Lam24_6+
800.84Lam1_7+6340.26Lam2_7+4874.65Lam3_7+
6141.23Lam4_7+4812.87Lam5_7+4572.68Lam6_7+6752.04Lam7_7+
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+5913.64Lam16_7+6251.86Lam17_7+5595.36Lam18_7+3606.40Lam19_

7+8923.01Lam20_7+11518.68Lam21_7+12598.32Lam22_7+5395.01Lam
23_7+6462.91Lam24_7+
800.84Lam1_8+6340.26Lam2_8+4874.65Lam3_8+
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+5913.64Lam16_8+6251.86Lam17_8+5595.36Lam18_8+3606.40Lam19_
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23_8+6462.91Lam24_8+
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23_9+6462.91Lam24_9+
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Lam15_10+5913.64Lam16_10+6251.86Lam17_10+5595.36Lam18_10+36
06.40Lam19_10+8923.01Lam20_10+11518.68Lam21_10+12598.32Lam2
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800.84Lam1_11+6340.26Lam2_11+4874.65Lam3_11+
6141.23Lam4_11+4812.87Lam5_11+4572.68Lam6_11+6752.04Lam7_11
+2897.71Lam8_11+3861.69Lam9_11+5812.54Lam10_11+5610.50Lam11
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Lam15_11+5913.64Lam16_11+6251.86Lam17_11+5595.36Lam18_11+36
06.40Lam19_11+8923.01Lam20_11+11518.68Lam21_11+12598.32Lam2
2_11+5395.01Lam23_11+6462.91Lam24_11+
800.84Lam1_12+6340.26Lam2_12+4874.65Lam3_12+
6141.23Lam4_12+4812.87Lam5_12+4572.68Lam6_12+6752.04Lam7_12
+2897.71Lam8_12+3861.69Lam9_12+5812.54Lam10_12+5610.50Lam11
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Lam15_12+5913.64Lam16_12+6251.86Lam17_12+5595.36Lam18_12+36
06.40Lam19_12+8923.01Lam20_12+11518.68Lam21_12+12598.32Lam2
2_12+5395.01Lam23_12+6462.91Lam24_12+
800.84Lam1_13+6340.26Lam2_13+4874.65Lam3_13+
6141.23Lam4_13+4812.87Lam5_13+4572.68Lam6_13+6752.04Lam7_13
+2897.71Lam8_13+3861.69Lam9_13+5812.54Lam10_13+5610.50Lam11
_13+4944.07Lam12_13+5119.43Lam13_13+6679.28Lam14_13+5655.94
Lam15_13+5913.64Lam16_13+6251.86Lam17_13+5595.36Lam18_13+36
06.40Lam19_13+8923.01Lam20_13+11518.68Lam21_13+12598.32Lam2
2_13+5395.01Lam23_13+6462.91Lam24_13+
800.84Lam1_14+6340.26Lam2_14+4874.65Lam3_14+6141.23Lam4_14+
4812.87Lam5_14+4572.68Lam6_14+6752.04Lam7_14+

2897.71Lam8_14+3861.69Lam9_14+5812.54Lam10_14+5610.50Lam11_14+4944.07Lam12_14+5119.43Lam13_14+6679.28Lam14_14+5655.94Lam15_14+5913.64Lam16_14+6251.86Lam17_14+5595.36Lam18_14+3606.40Lam19_14+8923.01Lam20_14+11518.68Lam21_14+12598.32Lam22_14+5395.01Lam23_14+6462.91Lam24_14+800.84Lam1_15+6340.26Lam2_15+4874.65Lam3_15+6141.23Lam4_15+4812.87Lam5_15+4572.68Lam6_15+6752.04Lam7_15+2897.71Lam8_15+3861.69Lam9_15+5812.54Lam10_15+5610.50Lam11_15+4944.07Lam12_15+5119.43Lam13_15+6679.28Lam14_15+5655.94Lam15_15+5913.64Lam16_15+6251.86Lam17_15+5595.36Lam18_15+3606.40Lam19_15+8923.01Lam20_15+11518.68Lam21_15+12598.32Lam22_15+5395.01Lam23_15+6462.91Lam24_15+800.84Lam1_16+6340.26Lam2_16+4874.65Lam3_16+6141.23Lam4_16+4812.87Lam5_16+4572.68Lam6_16+6752.04Lam7_16+2897.71Lam8_16+3861.69Lam9_16+5812.54Lam10_16+5610.50Lam11_16+4944.07Lam12_16+5119.43Lam13_16+6679.28Lam14_16+5655.94Lam15_16+5913.64Lam16_16+6251.86Lam17_16+5595.36Lam18_16+3606.40Lam19_16+8923.01Lam20_16+11518.68Lam21_16+12598.32Lam22_16+5395.01Lam23_16+6462.91Lam24_16+800.84Lam1_17+6340.26Lam2_17+4874.65Lam3_17+6141.23Lam4_17+4812.87Lam5_17+4572.68Lam6_17+6752.04Lam7_17+2897.71Lam8_17+3861.69Lam9_17+5812.54Lam10_17+5610.50Lam11_17+4944.07Lam12_17+5119.43Lam13_17+6679.28Lam14_17+5655.94Lam15_17+5913.64Lam16_17+6251.86Lam17_17+5595.36Lam18_17+3606.40Lam19_17+8923.01Lam20_17+11518.68Lam21_17+12598.32Lam22_17+5395.01Lam23_17+6462.91Lam24_17+800.84Lam1_18+6340.26Lam2_18+4874.65Lam3_18+6141.23Lam4_18+4812.87Lam5_18+4572.68Lam6_18+6752.04Lam7_18+2897.71Lam8_18+3861.69Lam9_18+5812.54Lam10_18+5610.50Lam11_18+4944.07Lam12_18+5119.43Lam13_18+6679.28Lam14_18+5655.94Lam15_18+5913.64Lam16_18+6251.86Lam17_18+5595.36Lam18_18+3606.40Lam19_18+8923.01Lam20_18+11518.68Lam21_18+12598.32Lam22_18+5395.01Lam23_18+6462.91Lam24_18+800.84Lam1_19+6340.26Lam2_19+4874.65Lam3_19+6141.23Lam4_19+4812.87Lam5_19+4572.68Lam6_19+6752.04Lam7_19+2897.71Lam8_19+3861.69Lam9_19+5812.54Lam10_19+5610.50Lam11_19+4944.07Lam12_19+5119.43Lam13_19+6679.28Lam14_19+5655.94Lam15_19+5913.64Lam16_19+6251.86Lam17_19+5595.36Lam18_19+3606.40Lam19_19+8923.01Lam20_19+11518.68Lam21_19+12598.32Lam22_19+5395.01Lam23_19+6462.91Lam24_19+800.84Lam1_20+6340.26Lam2_20+4874.65Lam3_20+6141.23Lam4_20+4812.87Lam5_20+4572.68Lam6_20+6752.04Lam7_20+2897.71Lam8_20+3861.69Lam9_20+5812.54Lam10_20+5610.50Lam11_20+4944.07Lam12_20+5119.43Lam13_20+6679.28Lam14_20+5655.94Lam15_20+5913.64Lam16_20+6251.86Lam17_20+5595.36Lam18_20+3606.40Lam19_20+8923.01Lam20_20+11518.68Lam21_20+12598.32Lam22_20+5395.01Lam23_20+6462.91Lam24_20+

800.84Lam1_21+6340.26Lam2_21+4874.65Lam3_21+6141.23Lam4_21+
 4812.87Lam5_21+4572.68Lam6_21+6752.04Lam7_21+2897.71Lam8_21
 +3861.69Lam9_21+5812.54Lam10_21+5610.50Lam11_21+4944.07Lam1
 2_21+5119.43Lam13_21+6679.28Lam14_21+5655.94Lam15_21+5913.6
 4Lam16_21+6251.86Lam17_21+5595.36Lam18_21+3606.40Lam19_21+
 8923.01Lam20_21+11518.68Lam21_21+12598.32Lam22_21+5395.01La
 m23_21+6462.91Lam24_21+
 800.84Lam1_22+6340.26Lam2_22+4874.65Lam3_22+
 6141.23Lam4_22+4812.87Lam5_22+4572.68Lam6_22+6752.04Lam7_22
 +2897.71Lam8_22+3861.69Lam9_22+5812.54Lam10_22+5610.50Lam11
 _22+4944.07Lam12_22+5119.43Lam13_22+6679.28Lam14_22+5655.94
 Lam15_22+5913.64Lam16_22+6251.86Lam17_22+5595.36Lam18_22+36
 06.40Lam19_22+8923.01Lam20_22+11518.68Lam21_22+12598.32Lam2
 2_22+5395.01Lam23_22+6462.91Lam24_22+
 800.84Lam1_23+6340.26Lam2_23+4874.65Lam3_23+6141.23Lam4_23+
 4812.87Lam5_23+4572.68Lam6_23+6752.04Lam7_23+2897.71Lam8_23
 +3861.69Lam9_23+5812.54Lam10_23+5610.50Lam11_23+4944.07Lam1
 2_23+5119.43Lam13_23+6679.28Lam14_23+5655.94Lam15_23+5913.6
 4Lam16_23+6251.86Lam17_23+5595.36Lam18_23+3606.40Lam19_23+
 8923.01Lam20_23+11518.68Lam21_23+12598.32Lam22_23+5395.01La
 m23_23+6462.91Lam24_23+
 800.84Lam1_24+6340.26Lam2_24+4874.65Lam3_24+
 6141.23Lam4_24+4812.87Lam5_24+4572.68Lam6_24+6752.04Lam7_24
 +2897.71Lam8_24+3861.69Lam9_24+5812.54Lam10_24+5610.50Lam11
 _24+4944.07Lam12_24+5119.43Lam13_24+6679.28Lam14_24+5655.94
 Lam15_24+5913.64Lam16_24+6251.86Lam17_24+5595.36Lam18_24+36
 06.40Lam19_24+8923.01Lam20_24+11518.68Lam21_24+12598.32Lam2
 2_24+5395.01Lam23_24+6462.91Lam24_24=241242.91

Con_1:

Lam1_1+Lam2_1+Lam3_1+Lam4_1+Lam5_1+Lam6_1+Lam7_1+Lam8_1+Lam
 9_1+Lam10_1+Lam11_1+Lam12_1+Lam13_1+Lam14_1+Lam15_1+Lam16_1
 +Lam17_1+Lam18_1+Lam19_1+Lam20_1+Lam21_1+Lam22_1+Lam23_1+La
 m24_1=1

Con_2:

Lam1_2+Lam2_2+Lam3_2+Lam4_2+Lam5_2+Lam6_2+Lam7_2+Lam8_2+Lam
 9_2+Lam10_2+Lam11_2+Lam12_2+Lam13_2+Lam14_2+Lam15_2+Lam16_2
 +Lam17_2+Lam18_2+Lam19_2+Lam20_2+Lam21_2+Lam22_2+Lam23_2+La
 m24_2=1

Con_3:

Lam1_3+Lam2_3+Lam3_3+Lam4_3+Lam5_3+Lam6_3+Lam7_3+Lam8_3+Lam
 9_3+Lam10_3+Lam11_3+Lam12_3+Lam13_3+Lam14_3+Lam15_3+Lam16_3
 +Lam17_3+Lam18_3+Lam19_3+Lam20_3+Lam21_3+Lam22_3+Lam23_3+La
 m24_3=1

Con_4:

$4+Lam2_4+Lam3_4+Lam4_4+Lam5_4+Lam6_4+Lam7_4+Lam8_4+Lam9_4+Lam10_4+Lam11_4+Lam12_4+Lam13_4+Lam14_4+Lam15_4+Lam16_4+Lam17_4+Lam18_4+Lam19_4+Lam20_4+Lam21_4+Lam22_4+Lam23_4+Lam24_4=1$

Con_5:

$Lam1_5+Lam2_5+Lam3_5+Lam4_5+Lam5_5+Lam6_5+Lam7_5+Lam8_5+Lam9_5+Lam10_5+Lam11_5+Lam12_5+Lam13_5+Lam14_5+Lam15_5+Lam16_5+Lam17_5+Lam18_5+Lam19_5+Lam20_5+Lam21_5+Lam22_5+Lam23_5+Lam24_5=1$

Con_6:

$Lam1_6+Lam2_6+Lam3_6+Lam4_6+Lam5_6+Lam6_6+Lam7_6+Lam8_6+Lam9_6+Lam10_6+Lam11_6+Lam12_6+Lam13_6+Lam14_6+Lam15_6+Lam16_6+Lam17_6+Lam18_6+Lam19_6+Lam20_6+Lam21_6+Lam22_6+Lam23_6+Lam24_6=1$

Con_7:

$Lam1_7+Lam2_7+Lam3_7+Lam4_7+Lam5_7+Lam6_7+Lam7_7+Lam8_7+Lam9_7+Lam10_7+Lam11_7+Lam12_7+Lam13_7+Lam14_7+Lam15_7+Lam16_7+Lam17_7+Lam18_7+Lam19_7+Lam20_7+Lam21_7+Lam22_7+Lam23_7+Lam24_7=1$

Con_8:

$Lam1_8+Lam2_8+Lam3_8+Lam4_8+Lam5_8+Lam6_8+Lam7_8+Lam8_8+Lam9_8+Lam10_8+Lam11_8+Lam12_8+Lam13_8+Lam14_8+Lam15_8+Lam16_8+Lam17_8+Lam18_8+Lam19_8+Lam20_8+Lam21_8+Lam22_8+Lam23_8+Lam24_8=1$

Con_9:

$Lam1_9+Lam2_9+Lam3_9+Lam4_9+Lam5_9+Lam6_9+Lam7_9+Lam8_9+Lam9_9+Lam10_9+Lam11_9+Lam12_9+Lam13_9+Lam14_9+Lam15_9+Lam16_9+Lam17_9+Lam18_9+Lam19_9+Lam20_9+Lam21_9+Lam22_9+Lam23_9+Lam24_9=1$

Con_10:

$Lam1_10+Lam2_10+Lam3_10+Lam4_10+Lam5_10+Lam6_10+Lam7_10+Lam8_10+Lam9_10+Lam10_10+Lam11_10+Lam12_10+Lam13_10+Lam14_10+Lam15_10+Lam16_10+Lam17_10+Lam18_10+Lam19_10+Lam20_10+Lam21_10+Lam22_10+Lam23_10+Lam24_10=1$

Con_11:

$Lam1_11+Lam2_11+Lam3_11+Lam4_11+Lam5_11+Lam6_11+Lam7_11+Lam8_11+Lam9_11+Lam10_11+Lam11_11+Lam12_11+Lam13_11+Lam14_11+Lam15_11+Lam16_11+Lam17_11+Lam18_11+Lam19_11+Lam20_11+Lam21_11+Lam22_11+Lam23_11+Lam24_11=1$

Con_12:

$Lam1_12+Lam2_12+Lam3_12+Lam4_12+Lam5_12+Lam6_12+Lam7_12+Lam8_12+Lam9_12+Lam10_12+Lam11_12+Lam12_12+Lam13_12+Lam14_12+Lam15_12+Lam16_12+Lam17_12+Lam18_12+Lam19_12+Lam20_12+Lam21_12+Lam22_12+Lam23_12+Lam24_12=1$

Con_13:

$Lam1_13+Lam2_13+Lam3_13+Lam4_13+Lam5_13+Lam6_13+Lam7_13+Lam8_13+Lam9_13+Lam10_13+Lam11_13+Lam12_13+Lam13_13+Lam14_13+L$

am15_13+Lam16_13+Lam17_13+Lam18_13+Lam19_13+Lam20_13+Lam21_13+Lam22_13+Lam23_13+Lam24_13=1

Con_14:

Lam1_14+Lam2_14+Lam3_14+Lam4_14+Lam5_14+Lam6_14+Lam7_14+Lam8_14+Lam9_14+Lam10_14+Lam11_14+Lam12_14+Lam13_14+Lam14_14+Lam15_14+Lam16_14+Lam17_14+Lam18_14+Lam19_14+Lam20_14+Lam21_14+Lam22_14+Lam23_14+Lam24_14=1

Con_15:

Lam1_15+Lam2_15+Lam3_15+Lam4_15+Lam5_15+Lam6_15+Lam7_15+Lam8_15+Lam9_15+Lam10_15+Lam11_15+Lam12_15+Lam13_15+Lam14_15+Lam15_15+Lam16_15+Lam17_15+Lam18_15+Lam19_15+Lam20_15+Lam21_15+Lam22_15+Lam23_15+Lam24_15=1

Con_16:

Lam1_16+Lam2_16+Lam3_16+Lam4_16+Lam5_16+Lam6_16+Lam7_16+Lam8_16+Lam9_16+Lam10_16+Lam11_16+Lam12_16+Lam13_16+Lam14_16+Lam15_16+Lam16_16+Lam17_16+Lam18_16+Lam19_16+Lam20_16+Lam21_16+Lam22_16+Lam23_16+Lam24_16=1

Con_17:

Lam1_17+Lam2_17+Lam3_17+Lam4_17+Lam5_17+Lam6_17+Lam7_17+Lam8_17+Lam9_17+Lam10_17+Lam11_17+Lam12_17+Lam13_17+Lam14_17+Lam15_17+Lam16_17+Lam17_17+Lam18_17+Lam19_17+Lam20_17+Lam21_17+Lam22_17+Lam23_17+Lam24_17=1

Con_18:

Lam1_18+Lam2_18+Lam3_18+Lam4_18+Lam5_18+Lam6_18+Lam7_18+Lam8_18+Lam9_18+Lam10_18+Lam11_18+Lam12_18+Lam13_18+Lam14_18+Lam15_18+Lam16_18+Lam17_18+Lam18_18+Lam19_18+Lam20_18+Lam21_18+Lam22_18+Lam23_18+Lam24_18=1

Con_19:

Lam1_19+Lam2_19+Lam3_19+Lam4_19+Lam5_19+Lam6_19+Lam7_19+Lam8_19+Lam9_19+Lam10_19+Lam11_19+Lam12_19+Lam13_19+Lam14_19+Lam15_19+Lam16_19+Lam17_19+Lam18_19+Lam19_19+Lam20_19+Lam21_19+Lam22_19+Lam23_19+Lam24_19=1

Con_20:

Lam1_20+Lam2_20+Lam3_20+Lam4_20+Lam5_20+Lam6_20+Lam7_20+Lam8_20+Lam9_20+Lam10_20+Lam11_20+Lam12_20+Lam13_20+Lam14_20+Lam15_20+Lam16_20+Lam17_20+Lam18_20+Lam19_20+Lam20_20+Lam21_20+Lam22_20+Lam23_20+Lam24_20=1

Con_21:

Lam1_21+Lam2_21+Lam3_21+Lam4_21+Lam5_21+Lam6_21+Lam7_21+Lam8_21+Lam9_21+Lam10_21+Lam11_21+Lam12_21+Lam13_21+Lam14_21+Lam15_21+Lam16_21+Lam17_21+Lam18_21+Lam19_21+Lam20_21+Lam21_21+Lam22_21+Lam23_21+Lam24_21=1

Con_22:

Lam1_22+Lam2_22+Lam3_22+Lam4_22+Lam5_22+Lam6_22+Lam7_22+Lam8_22+Lam9_22+Lam10_22+Lam11_22+Lam12_22+Lam13_22+Lam14_22+Lam15_22+Lam16_22+Lam17_22+Lam18_22+Lam19_22+Lam20_22+Lam21_22+Lam22_22+Lam23_22+Lam24_22=1

Con_23:

Lam1_23+Lam2_23+Lam3_23+Lam4_23+Lam5_23+Lam6_23+Lam7_23+Lam8_23+Lam9_23+Lam10_23+Lam11_23+Lam12_23+Lam13_23+Lam14_23+Lam15_23+Lam16_23+Lam17_23+Lam18_23+Lam19_23+Lam20_23+Lam21_23+Lam22_23+Lam23_23+Lam24_23=1

Con_24:

Lam1_24+Lam2_24+Lam3_24+Lam4_24+Lam5_24+Lam6_24+Lam7_24+Lam8_24+Lam9_24+Lam10_24+Lam11_24+Lam12_24+Lam13_24+Lam14_24+Lam15_24+Lam16_24+Lam17_24+Lam18_24+Lam19_24+Lam20_24+Lam21_24+Lam22_24+Lam23_24+Lam24_24=1

bounds

0<Mu_PCF1<1
 0<Mu_PCF2<1
 0<Mu_PCF3<1
 0<Mu_PCF4<1
 0<Mu_PCF5<1
 0<Mu_PCF6<1
 0<Mu_PCF7<1
 0<Mu_PCF8<1
 0<Mu_PCF9<1
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 0<Mu_DLR8<1
 0<Mu_DLR9<1

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0<Mu_RML8<1

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0<Mu_RML22<1
0<Mu_RML23<1
0<Mu_RML24<1

0<Mu_PCF<1
0<Mu_DLR<1
0<Mu_RWK<1
0<Mu_RML<1

end