Delta Natural Gas Company, Inc.
3617 Lexington Road
Winchester, Kentucky 40391-9797

PHONE: 859-744-6171
FAX: 859-744-3623

DGAS NASDAQ LISTED

May 20, 2008

RECEIVED
MAY 20 2008
PUBLIC SERVICE COMMISSION

Stephanie Stumbo
Executive Director
Public Service Commission
P O Box 615
Frankfort, KY 40602

RE: Case No. 2008-006 2

Dear Ms. Stumbo:

Enclosed herewith are the original and three copies of Delta's response to the Second Data Request of the Commission Staff dated May 6, 2008 in the above-styled case.

Please indicate receipt of this filing by date stamping the enclosed duplicate of this letter and returning it for our files in the envelope provided.

Sincerely,

Connie King

Connie King
Manager – Corporate & Employee Services

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

THE APPLICATION OF DELTA NATURAL GAS COMPANY, INC. FOR APPROVAL OF A CUSTOMER CONSERVATION/EFFICIENCY PROGRAM AND DEMAND SIDE MANAGEMENT COST RECOVERY MECHANISM	)))))	**CASE NO. 2008-00062**

* * * * * * * * * *

CERTIFICATION

The undersigned, John B. Brown, states that he is Chief Financial Officer, Treasurer and Secretary of Delta Natural Gas Company, Inc., a corporation, ("Delta") and certifies that he supervised the preparation of the responses of Delta to the Second Data Request of Commission Staff to Delta herein and that the responses are true and accurate to the best of the undersigned's knowledge, information and belief formed after a reasonable inquiry.

Dated this 20th day of May, 2008.

John B. Brown

DELTA NATURAL GAS COMPANY INC
CASE NO. 2008-0062

SECOND DATA REQUEST OF COMMISSION STAFF
DATED MAY 6, 2008

1. Refer to Item 1 of Delta's response to the Commission Staff's ("Staff") first data request.

a. Refer to Exhibit 1. Page 1 of 8 has a footnote stating that the "Program budget and conservation estimates per appliance are included in the Program Document, submitted as Exhibit MDW-1 to the Wesolosky testimony." Clarify where in the current application this information is located.

b. Refer to page 2 of 8. Explain how Delta derived its discount rate of 8.867 percent.

c. Refer to page 3 of 8. Update the bill reduction calculation with the demand charge actually granted in Delta's last rate case and its most recently approved Gas Cost Adjustment ("GCA").

d. Refer to Exhibit 2, page 3 of 5. Update the utility avoided supply costs to reflect Delta's most recently approved GCA.

RESPONSE:

1.

a. The Program Document, as filed in Case No. 2007-00089, was resubmitted as Exhibit 1 with the current application for the DSM program filed February 20, 2008. The following items are detailed in the Program Document:

- number of program participants page 12
- budgeted expenditures page 13
- conservation estimates page 14

The calculation of Ccf conserved on page 3 of KYPSC DR1-1 Exhibit 1 is provided on page 2 of the exhibit provided for KYPSC DR1-7k.

b. The discount rate used was Delta's weighted average cost of capital, as initially filled in Case 2007-00089. The California Tests have been revised with this data request utilizing the capital structure in case 2007-00089 with the cost of

equity updated to 10.5%, as stipulated by the settlement agreement. The revised discount rate is 8.232%. The revised "California Tests" have been provided as Exhibits 1 through 4 of this data request. The calculation of the discount rate has been provided as Exhibit 5.

c. Exhibit 1 has been revised using the demand charge granted in our last rate case (Case 2007-00089) and our most recently approved Gas Cost Adjustment (Case 2008-00102).

Exhibit 1, page 4 has been updated to reflect the expiration of the Residential Energy Tax Credits. The tax credits expired on December 31, 2007. Additionally, Exhibit 1, page 7; has been updated with the number of residential customers reported in our 2007 PSC Annual Report.

d. Exhibit 2 has been updated to reflect out most recently approved Gas Cost Adjustment, per case 2008-00102.

Based on the changes noted above in 1a.-d., the benefit-cost ratios of the revised "California Tests" are as follows:

Test	Revised	Per DSM Application	Exhibit
Participant	3.59	3.33	1
Ratepayer Impact Measure	1.88	1.57	2
Total Resource Cost	1.20	1.07	3
Program Administrator	1.40	1.06	4

Sponsoring Witness:

Matthew D. Wesolosky

Delta Natural Gas Company, Inc.
Conservation/Efficiency Program
Participant Test

$NPV_P = B_P - C_P$

B_P =	$	605,005
C_P =		168,551
NPV_P =	**$**	**436,454**

Benefit-Cost Ratio **3.59**

Conclusion:

Since the net present value is greater than zero, the program will benefit the participants

---

Where:

NPV_P = Net present value to all participants
B_P = NPV of benefit to all participants
C_P = NPV of cost to all participants

$$B_P = \sum_{t=1}^{N} \frac{BR_t + TC_t + INC_t}{(1+d)^{t-1}}$$

$$C_P = \sum_{t=1}^{N} \frac{PC_t + BI_t}{(1+d)^{t-1}}$$

BR_t = Bill reductions in year t
BI_t = Bill increases in year t
TC_t = Tax credits in year t
INC_t = Incentives paid to the participant by the Utility
PC_t = Participant costs in year t, which include incremental captial costs

The following calculations are based on the budgeted participation levels for year one of the program.

See response 7k to the first PSC data request for the illustrative example of the rate mechanism which details the recoveries for year one of the program. This example includes the projected program expenditures and the calculations of commodity conservation.

Program budget and conservation estimates per appliance are included in the Program Document, submitted as Exhibit 1 to the DSM application.

Delta Natural Gas Company, Inc.
Conservation/Efficiency Program
Participant Test

$$B_P = \sum_{t=1}^{N} \frac{BR_t + TC_t + INC_t}{(1+d)^{t-1}}$$

t	BR_t	TC_t	INC_t	B_P
1	74,357	-	120,400	194,757
2	74,357	-	-	74,357
3	74,357	-	-	74,357
4	74,357	-	-	74,357
5	74,357	-	-	74,357
6	74,357	-	-	74,357
7	74,357	-	-	74,357
8	74,357	-	-	74,357
9	74,357	-	-	74,357
10	74,357	-	-	74,357
	743,570	-	120,400	863,970

8.232% Discount Rate

$605,005 NPV

BR_t = Bill reductions in year t
TC_t = Tax credits in year t
INC_t = Incentives paid to the participant by the Utility

Delta Natural Gas Company, Inc.
Conservation/Efficiency Program
Participant Test

BR_t = Bill reductions in year t

t	(1) Ccf Conserved	(2) Projected Gas Cost*	(3) Current Demand Charge	(4) (2) + (3) Combined Rate	(1) x (4) BR_t
1	40,289	$ 1.430	$ 0.4158	$ 1.85	$ 74,357
2	40,289	$ 1.430	0.4158	1.85	74,357
3	40,289	$ 1.430	0.4158	1.85	74,357
4	40,289	$ 1.430	0.4158	1.85	74,357
5	40,289	$ 1.430	0.4158	1.85	74,357
6	40,289	$ 1.430	0.4158	1.85	74,357
7	40,289	$ 1.430	0.4158	1.85	74,357
8	40,289	$ 1.430	0.4158	1.85	74,357
9	40,289	$ 1.430	0.4158	1.85	74,357
10	40,289	$ 1.430	0.4158	1.85	74,357
					$ 743,570

(1) Total projected Ccf savings, based on budgeted participation levels in year one of the program. See KYPSC DR1-7k for calculation.

(2) As originally filed, the projected gas cost for subsequent years was based on the Department of Energy "Annual Energy Outlook". Per the Commission request in KYPSC DR2 - 1c, the gas cost has been updated using Delta's most recent GCR rate of $1.4298, per Ccf (case 2008-00102).

(3) Volumetric rate approved for residential customers in Case 2007-00089

Delta Natural Gas Company, Inc.
Conservation/Efficiency Program
Participant Test

TC_t = Tax credits in year t

	(1) Program Participants	(2) Residential Energy Credits	(1) x (2) TC_t
A. High Efficiency Heating Savings			
1. High Efficiency Forced Air Furnaces	160	-	$ -
2. High Efficiency Dual Fuel Units	20	-	-
3. High Efficiency Gas Space Heating	20	-	-
4. High Efficiency Gas Logs/Fireplaces	340	-	-
B. High Efficiency Water Heating Savings			
1. High Efficiency Holding Tank Models	63	-	-
2. High Efficiency Power Vent Models	6	-	-
3. High Efficiency On-Demand Models	1	-	-
Total	**610**		**$ -**

Note: participants are eligible for tax credits in the year they incur expenditures for high-efficiency appliances, since this is an analysis of participation in a single year, the tax credit is applicable only where t = 1

(1) Based on budgeted participation levels in year one of the CEP.
(2) As originally filed in Case 2007-00089, the Residential Energy Credits were considered in the calculation of the benefit to the participant. The Residential Energy Credits expired December 31, 2007. Therefore, the above schedule has been updated to reflect this change in tax law.

Delta Natural Gas Company, Inc.
Conservation/Efficiency Program
Participant Test

INC_t = Incentives paid to the participant by the Utility, for t = 1

	(1) Program Participants	(2) Rebate Amount	(1) x (2) INC_t
A. High Efficiency Heating Savings			
1. High Efficiency Forced Air Furnaces	160	$ 400	$ 64,000
2. High Efficiency Dual Fuel Units	20	300	6,000
3. High Efficiency Gas Space Heating	20	100	2,000
4. High Efficiency Gas Logs/Fireplaces	340	100	34,000
B. High Efficiency Water Heating Savings			
1. High Efficiency Holding Tank Models	63	200	12,600
2. High Efficiency Power Vent Models	6	250	1,500
3. High Efficiency On-Demand Models	1	300	300
Total	**610**		**$ 120,400**

(1) Based on budgeted participation levels in year one of the CEP.
(2) Amount of rebate per CEP, per unit

Note: rebates are given to participant in the year they elect to participate, since this is an analysis of participation in a single year, the rebate is applicable only where t = 1

Delta Natural Gas Company, Inc.
Conservation/Efficiency Program
Participant Test

$$C_P = \sum_{t=1}^{N} \frac{PC_t + BI_t}{(1+d)^{t-1}}$$

t	(1) BI_t	(2) PC_t	(1) + (2) C_P
1	4,229	177,060	181,289
2	345	-	345
3	345	-	345
4	345	-	345
5	345	-	345
6	-	-	-
7	-	-	-
8	-	-	-
9	-	-	-
10	-	-	-
	5,610	177,060	182,670

8.232% Discount Rate

$168,551 NPV

BI_t = Bill increases in year t

PC_t = Participant costs in year t, which include incremental capital costs

Delta Natural Gas Company, Inc.
Conservation/Efficiency Program
Participant Test

BI_t = PF x CEPRC

t	(1) CEPCR	(2) CEPLS	(3) CEPI	(4) (1) + (2) + (3) CEPRC	(5) PF	(4) x (5) BI_t
1	167,120	16,756	21,416	205,292	0.0206	4,229
2		16,756		16,756	0.0206	345
3		16,756		16,756	0.0206	345
4		16,756		16,756	0.0206	345
5		16,756		16,756	0.0206	345
6				-	0.0206	-
7				-	0.0206	-
8				-	0.0206	-
9				-	0.0206	-
10				-	0.0206	-
	167,120	83,780	21,416	272,316		5,610

(1) - (3) Represents the individual components which comprise the CEP cost recovery. Amounts for year one are based on the year one program budget and expected participation.

For further explanation on the calculations behind (1) - (3) see the proposed tariff included with the application for Case 2008-00062

(1) CEPCR represents the program cost recovery of expenses for the given year. As noted this analysis is for a single year of participation, therefore the CEPCR is recovered where t=1.

(2) CEPLS represents the lost sales attributable to participation in the CEP. Lost sales for a given year are recovered annually through the CEP mechanism until the next general rate case when rates can be reset. Since this analysis is for a single year of participation the lost sales remain constant until the next general rate case. For the purpose of this analysis the next general rate case anticipated in five years.

(3) CEPI represents the incentive earned by the company based on the conservation in the given year. As noted this analysis is for a single year of participation, therefore the CEPI is recovered where t=1.

(5) BI_t represents the impact of increased rates on the program participants. Since the CEPRC is recovered from all residential customers, a factor was applied to determine the amount of impact to the CEP participants. This is a ratio of participants to the number of residential customers as of 12/31/07.

A	656	Budgeted CEP participants (year 1)
B	31,829	total residential customers, per 2007 PSC Annual Report
A/B	0.0206	Participant Factor (PF)

Delta Natural Gas Company, Inc.
Conservation/Efficiency Program
Participant Test

PC_t = Participant costs for t = 1

	(1) Program Participants	(2) Incremental Cost	(1) x (2) PC_t
A. High Efficiency Heating Savings			
1. High Efficiency Forced Air Furnaces	160	$ 613	$ 98,080
2. High Efficiency Dual Fuel Units	20	613	12,260
3. High Efficiency Gas Space Heating	20	143	2,860
4. High Efficiency Gas Logs/Fireplaces	340	143	48,620
B. High Efficiency Water Heating Savings			
1. High Efficiency Holding Tank Models	63	187	11,781
2. High Efficiency Power Vent Models	6	455	2,730
3. High Efficiency On-Demand Models	1	729	729
Total	**610**		**$ 177,060**

IC = Incremental Costs for purchasing high-efficiency unit

(1) Based on budgeted participation levels in year one of the CEP.

(2) Incremental costs, per; KYPSC DR1-7c

Delta Natural Gas Company, Inc.
Conservation/Efficiency Program
Ratepayer Impact Measure (RIM) Test

$NPV_{RIM} = B_{RIM} - C_{RIM}$

B_{RIM} =	$	623,214
C_{RIM} =		332,146
NPV_{RIM} =	**$**	**291,068**

Benefit-Cost Ratio **1.88**

Conclusion:

Since the net present value is greater than zero, the program will benefit rates and bills

---

Where:

NPV_{RIM} = Net present value levels
B_{RIM} = Benefits to rate levels or customer bills
C_{RIM} = Costs to rate levels or customer bills

$$B_{RIM} \sum_{t=1}^{N} \frac{UAC_t + RG_t}{(1+d)^{t-1}}$$

$$C_{RIM} \sum_{t=1}^{N} \frac{UIC_t + RL_t + PRC_t + INC_t}{(1+d)^{t-1}}$$

UAC_t = Utility avoided supply costs in year t
UIC_t = Utility increased supply costs in year t
RG_t = Revenue gain from increased sales in year t
RL_t = Revenue loss from reduced sales in year t
PRC_t = Program administrator costs in year t
INC_t = Incentives paid to the participant by the sponsoring utility in year t

The following calculations are based on the budgeted participation levels for year one of the program.

See response 7k to the first PSC data request for the illustrative example of the rate mechanism which details the recoveries for year one of the program. This example includes the projected program expenditures and the calculations of commodity conservation.

Program budget and conservation estimates per appliance are included in the Program Document, submitted as Exhibit 1 to the DSM application.

Delta Natural Gas Company, Inc.
Conservation/Efficiency Program
Ratepayer Impact Measure (RIM) Test

$$B_{RIM} \sum_{t=1}^{N} \frac{UAC_t + RG_t}{(1+d)^{t-1}}$$

t	UAC_t	RG_t	B_{RIM}
1	57,605	205,292	262,897
2	57,605	16,756	74,361
3	57,605	16,756	74,361
4	57,605	16,756	74,361
5	57,605	16,756	74,361
6	57,605	-	57,605
7	57,605	-	57,605
8	57,605	-	57,605
9	57,605	-	57,605
10	57,605	-	57,605
	576,052	272,316	848,368

8.232% Discount Rate

$623,214 NPV

UAC_t = Utility avoided supply costs in year t
RG_t = Revenue gain from increased sales in year t

Delta Natural Gas Company, Inc.
Conservation/Efficiency Program
Ratepayer Impact Measure (RIM) Test

UAC_t = Utility avoided supply costs in year t

t	(1) Ccf Conserved	(2) Projected Gas Cost*	(1) x (2) UAC_t
1	40,289	$ 1.430	$ 57,605
2	40,289	$ 1.430	$ 57,605
3	40,289	$ 1.430	$ 57,605
4	40,289	$ 1.430	$ 57,605
5	40,289	$ 1.430	$ 57,605
6	40,289	$ 1.430	$ 57,605
7	40,289	$ 1.430	$ 57,605
8	40,289	$ 1.430	$ 57,605
9	40,289	$ 1.430	$ 57,605
10	40,289	$ 1.430	$ 57,605
			$ 576,052

(1) Total projected Ccf savings, based on budgeted participation levels in year one of the program. These amounts continue to be saved year after year.

(2) As originally filed, the projected gas cost for subsequent years was based on the Department of Energy "Annual Energy Outlook". Per the Commission request in KYPSC DR2-1d, the gas cost has been updated using Delta's most recent GCR rate of $1.4298, per Ccf (case 2008-00102).

Note: the above analysis is based on the CCF conserved from a single year of participation in the CEP

Delta Natural Gas Company, Inc.
Conservation/Efficiency Program
Ratepayer Impact Measure (RIM) Test

RG_t = Revenue gain from increased sales in year t

t	(1) CEPCR	(2) CEPLS	(3) CEPI	RG_t
1	167,120	16,756	21,416	205,292
2		16,756		16,756
3		16,756		16,756
4		16,756		16,756
5		16,756		16,756
6				-
7				-
8				-
9				-
10				-
	167,120	83,780	21,416	272,316

(1) - (3) Represents the individual components which comprise the CEP cost recovery. Amounts for year one are based on the year one program budget and expected participation.

For further explanation on the calculations behind (1) - (3) see the proposed tariff included with the application for Case 2008-00062

(1) CEPCR represents the program cost recovery of expenses for the given year. As noted this analysis is for a single year of participation, therefore the CEPCR is recovered where t=1.

(2) CEPLS represents the lost sales attributable to participation in the CEP. Lost sales for a given year are recovered annually through the CEP mechanism until the next general rate case when rates can be reset. Since this analysis is for a single year of participation the lost sales remain constant until the next general rate case. For the purpose of this analysis the next general rate case anticipated in five years based on the requirements of the proposed CRS tariff.

(3) CEPI represents the incentive earned by the company based on the conservation in the given year. As noted this analysis is for a single year of participation, therefore the CEPI is recovered where t=1.

Delta Natural Gas Company, Inc.
Conservation/Efficiency Program
Ratepayer Impact Measure (RIM) Test

$$C_{RIM} \sum_{t=1}^{N} \frac{UIC_t + RL_t + PRC_t + INC_t}{(1+d)^{t-1}}$$

t	(1) UIC_t	(2) RL_t	(3) PRC_t	(4) INC_t	(1) + (2) C_{RIM}
1	-	16,756	167,120	120,400	304,276
2	-	16,756	-	-	16,756
3	-	16,756	-	-	16,756
4	-	16,756	-	-	16,756
5	-	16,756	-	-	16,756
6	-	-	-	-	-
7	-	-	-	-	-
8	-	-	-	-	-
9	-	-	-	-	-
10	-	-	-	-	-
	-	83,780	167,120	120,400	371,300

8.232% Discount Rate

$332,146 NPV

UIC_t = Utility increased supply costs in year t
RL_t = Revenue loss from reduced sales in year t
PRC_t = Program administrator costs in year t
INC_t = Incentives paid to the participant by the sponsoring utility in year t

(1) No known increased supply costs
(2) see RG; column (2)
(3) see RG; column (3)
(4) Scheduled per calculation performed for Participant Test

Delta Natural Gas Company, Inc.
Conservation/Efficiency Program
Total Resource Cost (TRC) Test

$NPV_{TRC} = B_{TRC} - C_{TRC}$

B_{TRC} =	$	382,523
C_{TRC} =		318,002
NPV_{TRC} =	**$**	**64,521**

Benefit-Cost Ratio **1.20**

Conclusion:

Since the net present value is greater than zero, the program is a less expensive resource than the supply option upon which the marginal costs are based.

Where:

NPV_{TRC} = Net present value of total cost of the resource
B_{TRC} = NPV of benefits of the program
C_{TRC} = NPV of costs of the programs

$$B_{TRC} = \sum_{t=1}^{N} \frac{UAC_t + TC_t}{(1+d)^{t-1}}$$

$$C_{TRC} = \sum_{t=1}^{N} \frac{PRC_t + PCN_t + UIC_t}{(1+d)^{t-1}}$$

UAC_t = Utility avoided supply costs in year t
TC_t = Tax credits in year t
UIC_t = Utility increased supply costs in year t
PRC_t = Program administrator costs in year t
PCN_t = Net particpant costs

The following calculations are based on the budgeted participation levels for year one of the program.

Delta Natural Gas Company, Inc.
Conservation/Efficiency Program
Total Resource Cost (TRC) Test

$$B_{TRC} = \sum_{t=1}^{N} \frac{UAC_t + TC_t}{(1+d)^{t-1}}$$

t	(1) UAC_t	(2) TC_t	B_{TRC}
1	57,605	-	57,605
2	57,605	-	57,605
3	57,605	-	57,605
4	57,605	-	57,605
5	57,605	-	57,605
6	57,605	-	57,605
7	57,605	-	57,605
8	57,605	-	57,605
9	57,605	-	57,605
10	57,605	-	57,605
	576,052	-	576,052

8.232% Discount Rate

$382,523 NPV

UAC_t = Utility avoided supply costs in year t
TC_t = Tax Credits in year t

(1) Scheduled per calculation performed for RIM Test
(2) Scheduled per calculation performed for Participant Test

Delta Natural Gas Company, Inc.
Conservation/Efficiency Program
Total Resource Cost (TRC) Test

$$C_{TRC} = \sum_{t=1}^{N} \frac{PRC_t + PCN_t + UIC_t}{(1+d)^{t-1}}$$

t	(1) PRC_t	(2) PCN_t	(3) UIC_t	C_{TRC}
1	167,120	177,060	-	344,180
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-
6	-	-	-	-
7	-	-	-	-
8	-	-	-	-
9	-	-	-	-
10	-	-	-	-
	167,120	177,060	-	344,180

8.232% Discount Rate

$318,002 NPV

PRC_t = Program administrator costs in year t
PCN_t = Net particpant costs
UIC_t = Utility increased supply costs in year t

(1) Scheduled per calculation performed for RIM Test

(2) Represents net participant costs which is the incremental cost to the participant of purchasing a high-efficiency appliance versus one with standard efficiency. Amount scheduled from PC_t from the Participant Test.

(3) No known increased supply costs as a result of operating the CEP

Delta Natural Gas Company, Inc.
Conservation/Efficiency Program
Program Administrator Cost Test

$NPV_{pa} = B_{pa} - C_{pa}$

B_{pa} =	$	371,865
C_{pa} =		265,652
NPV_{pa} =	**$**	**106,213**

Benefit-Cost Ratio **1.40**

Conclusion:

Since the net present value is greater than zero, the program would decrease costs to the utility

---

Where:

NPV_{pa} = Net present value of total cost of the resource
B_{pa} = NPV of benefits of the program
C_{pa} = NPV of costs of the programs

$$B_{pa} = \sum_{t=1}^{N} \frac{UAC_t}{(1+d)^{t-1}}$$

$$C_{pa} = \sum_{t=1}^{N} \frac{PRC_t + INC_t + UIC_t}{(1+d)^{t-1}}$$

UAC_t = Utility avoided supply costs in year t
PRC_t = Program Administrator Costs in year t
INC_t = Incentives paid to the participant by the Utility
UIC_t = Utility increased supply costs in year t

The following calculations are based on the budgeted participation levels for year one of the program.

ıral Gas Company, Inc.
tion/Efficiency Program
\dministrator Cost Test

$$\frac{UAC_t}{(1+d)^{t-1}}$$

(1)

t		UAC_t
1	$	57,605
2	$	57,605
3	$	57,605
4	$	57,605
5	$	57,605
6	$	57,605
7	$	57,605
8	$	57,605
9	$	57,605
10	$	57,605
	$	576,052

8.867% Discount Rate

$371,865 NPV

scheduled per calculation performed for RIM test

Utility avoided supply costs in year t

		2007-00089, as filed 12/31/2006				2007-00089, as settled 12/31/06	
Equity		Ratios	Cost Rates	Weighted Cost of Capital	Return	Cost Rates	Weighted Cost of Capital
Per DNG Balance Sheet	(52,736,947)						
Unbilled	1,482,514						
Minimum Pension Liability	-						
Subsidiaries **	621,393						
Unknown to balance to order	-						
	(50,633,040)	39.67%	12.100%	4.800%		10.500%	4.165%
Long Term Debt	(59,870,000)	46.90%	6.814%	3.196%		6.814%	3.196%
Short Term Debt	(17,146,346)	13.43%	6.487%	0.871%		6.487%	0.871%
	(127,649,386)			8.867%			8.232%