

5/18/2011 COMBINED ENTITY
Luminant Proposed

M1 20
M2 20
DALE 7 Days
RTLE 14 Days

EAL	IEL	\$	-
	DALE	\$	(11,595,360)
	MCE	\$	473,280
	RTLE	\$	2,366,400
	RTLF	\$	(3,105,900)
	RTLCNS	\$	(2,175,013)
	URTA	\$	2,366,400
		\$	2,366,400
OUT		\$	1,319,780
PUL			\$0
CCE		\$	3,686,180

$$\text{Max}\left\{\sum_{d96,1=\Sigma i}^{25,11} \left[\sum_{oidk} [L_{oidk} * T2 + RTQQNETES_{oidk} * T1 - G_{oidk} * (1 - NUCAD_{Jo}) * T2] * RTSPP_{idk} * PM_o * SAF / n \right], \sum_{d96,1=\Sigma i}^{25,11} k \sum_{oidk} [G_{oidk} * NUCAD_{Jo} * T1 * RTSPP_{idk} * PM_o * SAF / n] \right\}$$

Hour ending	2	RTSPP	\$24.65
Settlement interval	8	PM	200%
Calendar day	19-May	SAF	1
RTSPP	North Hub	n (# days)	14

Input
Output

PART 1	VOLUME	T2	RTSPP	PM	SAF	T1	NUCADJ
LOAD	168,000		5				840,000
RTQQNETES							
TOTAL QQ PURCHASES (MWh) - Cpty 1	13,440			\$24.65	200%	1	\$ 662,592

TOTAL QQ PURCHASES (MWh) - Cpty 2	20,160	\$24.65	200%	1	\$ 993,888					
TOTAL QQ SALES (MWh) - Cpty 1	20,160	\$24.65	200%	1	\$ 993,888					
TOTAL QQ SALES (MWh) - Cpty 2	16,800	\$24.65	200%	1	\$ 828,240					
					\$ 165,648	2			331,296	
GENERATION	336,000			5				20%	1,344,000	\$ (24,515,904)
PART 1 TOTAL										\$ (1,751,136)
PART 2										
GENERATION	336,000	\$24.65	200%	1		2		20%	\$ 473,280	\$ 473,280
MCE										\$ 473,280

		QSE to QSE Pur MWh	QSE to QSE Sales MWh	DA Pur MWh	DA Sales MWh	Imbalance MWh	Total Load MWh	Total Gen MWh	Imbalance Amt \$	Total CRR \$	Other BD \$	RTL \$
RTL CNS operating day	5/8/2011	2,400	2,640		11,760	(12,000)	97,638	213,648	(295,800)	(\$75,236)		(\$371,036)
	5/9/2011	2,400	2,640		11,760	(12,000)	7,853	213,656	(295,800)	\$195,632		(\$100,168)
	5/10/2011	2,400	2,640		11,760	(12,000)	68,234	234,163	(295,800)	\$63,259		(\$232,541)
	5/11/2011	2,400	2,640		11,760	(12,000)	325,000	228,796	(295,800)	\$13,629		(\$282,171)
	5/12/2011	2,400	2,640		11,760	(12,000)	88,756	215,684	(295,800)	(\$32,691)		(\$328,491)
	5/13/2011	2,400	2,640		11,760	(12,000)	180,000	224,632	(295,800)	(\$13,695)		(\$309,495)
	5/14/2011	2,400	2,640		11,760	(12,000)	158,295	216,985	(295,800)	\$46,923		(\$248,877)
	5/15/2011	2,400	2,640		11,760	(12,000)	5,698	217,563	(295,800)	\$86,259		(\$209,541)
	5/16/2011	2,400	2,640		11,760	(12,000)	90,875	216,432	(295,800)	\$263,209		(\$32,591)
	5/17/2011	2,400	2,640		11,760	(12,000)	132,406	217,630	(295,800)	\$235,698		(\$60,102)
RTL F operating day	5/18/2011					(12,000)	325,000	228,796	(443,700)			(\$443,700)

5/19/2011	(12,000)	88,756	215,684	(443,700)	(\$443,700)
5/20/2011	(12,000)	180,000	224,632	(443,700)	(\$443,700)
5/21/2011	(12,000)	158,295	216,985	(443,700)	(\$443,700)
5/22/2011	(12,000)	5,698	217,563	(443,700)	(\$443,700)
5/23/2011	(12,000)	90,875	216,432	(443,700)	(\$443,700)
5/24/2011	(12,000)	132,406	217,630	(443,700)	(\$443,700)

		Invoice amount	
URTA operating day RT	5/16/2011	\$118,320	\$118,320 assume highest for 60 days
	5/15/2011	\$118,320	
	5/14/2011	\$118,320	
	5/13/2011	\$118,320	
	5/12/2011	\$118,320	
	5/11/2011	\$118,320	
	5/10/2011	\$118,320	
	5/9/2011	\$118,320	
	5/8/2011	\$118,320	
	5/7/2011	\$118,320	
	5/6/2011	\$118,320	
	5/5/2011	\$118,320	
	5/4/2011	\$118,320	
	5/3/2011	\$118,320	

$$\text{Max}\left\{\sum_{d=1}^{25} \sum_{i=1}^{96} \left[L_{oidk} * T2 + RTQNETES_{oidk} * T1 - G_{oidk} * (1 - NUCAD_{Jo}) * T2 \right] * RTSPP_{idk} * PM_o * SAF / n, \sum_{d=1}^{25} \sum_{i=1}^{96} \left[G_{oidk} * NUCAD_{Jo} * T1 * RTSPP_{idk} * PM_o * SAF / n \right] \right\}$$

Hour ending	2	RTSPP	\$24.65
Settlement interval	8	PM	200%
Calendar day	19-May	SAF	1
RTSPP	North Hub	n (# days)	14

PART 1	VOLUME	T2	RTSPP	PM	SAF	T1	NUCADJ	
LOAD	168,000		5					840,000

RTQQNETES

TOTAL QQ PURCHASES (MWh) - Cpty 1	13,440	\$24.65	200%	1	\$ 662,592			
TOTAL QQ PURCHASES (MWh) - Cpty 2	20,160	\$24.65	200%	1	\$ 993,888			
TOTAL QQ SALES (MWh) - Cpty 1	20,160	\$24.65	200%	1	\$ 993,888			
TOTAL QQ SALES (MWh) - Cpty 2	16,800	\$24.65	200%	1	\$ 828,240			
					\$ 165,648	2		331,296

GENERATION	336,000			5	161,280		20%	1,344,000	(172,704)
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PART 1 TOTAL \$ (608,165)

PART 2									
GENERATION	336,000	\$24.65	200%	1		2	20%	\$ 473,280	\$ 473,280

MCE \$ 473,280

5/18/2011 COMBINED ENTITY
Luminant Proposed

				M1	20
				M2	20
				DALE	7 Days
EAL	IEL	\$	-	RTLE	14 Days
	DALE	\$	236,640		
	MCE	\$	473,280		
	RTLE	\$	-		
	RTLF	\$	-		
	RTLCNS	\$	782,987		
	URTA	\$	-		
		\$	782,987		
OUT		\$	1,319,780		
PUL			\$0		
CCE			\$ 2,102,767		

$$\text{Max}\left\{\frac{\sum_{d96,1=\Sigma i} \left[L_{oidk} * T2 + RTQNETES_{oidk} * T1 - G_{oidk} * (1 - NUCAD_{Jo}) * T2 \right] * RTSPP_{idk} * PM_o * SAF}{n}, \frac{\sum_{d96,1=\Sigma i} \left[G_{oidk} * NUCAD_{Jo} * T1 \right] * RTSPP_{idk} * PM_o * SAF}{n}\right\}$$

Hour ending	2	RTSPP	\$24.65
Settlement interval	8	PM	200%
Calendar day	19-May	SAF	1
RTSPP	North Hub	n (# days)	14

Input
Output

PART 1	VOLUME	T2	RTSPP	PM	SAF	T1	NUCADJ
LOAD	-		5				-
RTQNETES							
TOTAL QQ PURCHASES (MWh) - Cpty 1	13,440		\$24.65	200%	1	\$	662,592

TOTAL QQ PURCHASES (MWh) - Cpty 2	20,160	\$24.65	200%	1	\$ 993,888					
TOTAL QQ SALES (MWh) - Cpty 1	20,160	\$24.65	200%	1	\$ 993,888					
TOTAL QQ SALES (MWh) - Cpty 2	16,800	\$24.65	200%	1	\$ 828,240					
					\$ 165,648	2			331,296	
GENERATION	-			5				20%	-	\$ 331,296
PART 1 TOTAL										\$ 23,664
PART 2										
GENERATION	-	\$24.65	200%	1		2		20%	\$ -	\$ -
MCE										\$ 23,664

		QSE to QSE Pur MWh	QSE to QSE Sales MWh	DA Pur MWh	DA Sales MWh	Imbalance MWh	Total Load MWh	Total Gen MWh	Imbalance Amt \$	Total CRR \$	Other BD \$	RTL \$
RTL CNS operating day	5/8/2011	2,400	2,640		(240)	-	97,638	213,648	-	(\$75,236)		(\$75,236)
	5/9/2011	2,400	2,640		(240)	-	7,853	213,656	-	\$195,632		\$195,632
	5/10/2011	2,400	2,640		(240)	-	68,234	234,163	-	\$63,259		\$63,259
	5/11/2011	2,400	2,640		(240)	-	325,000	228,796	-	\$13,629		\$13,629
	5/12/2011	2,400	2,640		(240)	-	88,756	215,684	-	(\$32,691)		(\$32,691)
	5/13/2011	2,400	2,640		(240)	-	180,000	224,632	-	(\$13,695)		(\$13,695)
	5/14/2011	2,400	2,640		(240)	-	158,295	216,985	-	\$46,923		\$46,923
	5/15/2011	2,400	2,640		(240)	-	5,698	217,563	-	\$86,259		\$86,259
	5/16/2011	2,400	2,640		(240)	-	90,875	216,432	-	\$263,209		\$263,209
	5/17/2011	2,400	2,640		(240)	-	132,406	217,630	-	\$235,698		\$235,698
RTLF operating day	5/18/2011					-	325,000	228,796	-			\$0

5/19/2011	-	88,756	215,684	-	\$0
5/20/2011	-	180,000	224,632	-	\$0
5/21/2011	-	158,295	216,985	-	\$0
5/22/2011	-	5,698	217,563	-	\$0
5/23/2011	-	90,875	216,432	-	\$0
5/24/2011	-	132,406	217,630	-	\$0

Invoice amount

URTA operating day	5/16/2011	\$0	\$0 assume highest for 60 days
RT	5/15/2011	\$0	
	5/14/2011	\$0	
	5/13/2011	\$0	
	5/12/2011	\$0	
	5/11/2011	\$0	
	5/10/2011	\$0	
	5/9/2011	\$0	
	5/8/2011	\$0	
	5/7/2011	\$0	
	5/6/2011	\$0	
	5/5/2011	\$0	
	5/4/2011	\$0	
	5/3/2011	\$0	

$$\text{Max}\left\{\frac{\sum_{d96,1=1}^{25,11} \sum_{i=1}^n [L_{oidk} * T2 + RTQQNETES_{oidk} * T1 - G_{oidk} * (1 - NUCAD_{Jo}) * T2] * RTSPP_{idk} * PM_o * SAF}{n}, \frac{\sum_{d96,1=1}^{25,11} \sum_{i=1}^n [G_{oidk} * NUCAD_{Jo} * T1 * RTSPP_{idk} * PM_o * SAF]}{n}\right\}$$

Hour ending	2	RTSPP	\$24.65
Settlement interval	8	PM	200%
Calendar day	19-May	SAF	1
RTSPP	North Hub	n (# days)	14

PART 1	VOLUME	T2	RTSPP	PM	SAF	T1	NUCADJ
LOAD	168,000		5				840,000

RTQQNETES

TOTAL QQ PURCHASES (MWh) - Cpty 1	13,440	\$24.65	200%	1	\$ 662,592		
TOTAL QQ PURCHASES (MWh) - Cpty 2	20,160	\$24.65	200%	1	\$ 993,888		
TOTAL QQ SALES (MWh) - Cpty 1	20,160	\$24.65	200%	1	\$ 993,888		
TOTAL QQ SALES (MWh) - Cpty 2	16,800	\$24.65	200%	1	\$ 828,240		
					\$ 165,648	2	331,296

161,280

GENERATION	336,000			5			20%	1,344,000	(172,704)
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PART 1 TOTAL \$ (608,165)

PART 2									
GENERATION	336,000	\$24.65	200%	1		2	20%	\$ 473,280	\$ 473,280

MCE \$ 473,280

5/18/2011 COMBINED ENTITY
Luminant Proposed

			M1	20
			M2	20
			DALE	7 Days
EAL	IEL	\$ -	RTLE	14 Days
	DALE	\$ 12,068,640		
	MCE	\$ 473,280		
	RTLE	\$ -		
	RTLF	\$ 3,105,900		
	RTLCNS	\$ 3,740,987		
	URTA	\$ -		
		\$ 15,174,540		
OUT		\$ 1,319,780		
PUL		\$0		
CCE		\$ 16,494,320		

$$\text{Max}\left\{\frac{\sum_{d96,1=\Sigma i} \left[L_{oidk} * T2 + RTQQNETES_{oidk} * T1 - G_{oidk} * (1 - NUCAD_{Jo}) * T2 \right] * RTSPP_{idk} * PM_o * SAF}{n}, \frac{\sum_{d96,1=\Sigma i} \left[G_{oidk} * NUCAD_{Jo} * T1 * RTSPP_{idk} * PM_o * SAF \right]}{n}\right\}$$

Hour ending	2	RTSPP	\$24.65
Settlement interval	8	PM	200%
Calendar day	19-May	SAF	1
RTSPP	North Hub	n (# days)	14

Input
Output

PART 1	VOLUME	T2	RTSPP	PM	SAF	T1	NUCADJ
LOAD	168,000		5				840,000
RTQQNETES							
TOTAL QQ PURCHASES (MWh) - Cpty 1	13,440			\$24.65	200%	1	\$ 662,592

TOTAL QQ PURCHASES (MWh) - Cpty 2	20,160	\$24.65	200%	1	\$ 993,888					
TOTAL QQ SALES (MWh) - Cpty 1	20,160	\$24.65	200%	1	\$ 993,888					
TOTAL QQ SALES (MWh) - Cpty 2	16,800	\$24.65	200%	1	\$ 828,240					
					\$ 165,648	2			331,296	
GENERATION	-			5				20%	-	\$ 41,743,296
PART 1 TOTAL										\$ 2,981,664
PART 2										
GENERATION	-	\$24.65	200%	1		2		20%	\$ -	\$ -
MCE										\$ 2,981,664

		QSE to QSE Pur MWh	QSE to QSE Sales MWh	DA Pur MWh	DA Sales MWh	Imbalance MWh	Total Load MWh	Total Gen MWh	Imbalance Amt \$	Total CRR \$	Other BD \$	RTL \$
RTL CNS operating day	5/8/2011	2,400	2,640		(12,240)	12,000	97,638	213,648	295,800	(\$75,236)		\$220,564
	5/9/2011	2,400	2,640		(12,240)	12,000	7,853	213,656	295,800	\$195,632		\$491,432
	5/10/2011	2,400	2,640		(12,240)	12,000	68,234	234,163	295,800	\$63,259		\$359,059
	5/11/2011	2,400	2,640		(12,240)	12,000	325,000	228,796	295,800	\$13,629		\$309,429
	5/12/2011	2,400	2,640		(12,240)	12,000	88,756	215,684	295,800	(\$32,691)		\$263,109
	5/13/2011	2,400	2,640		(12,240)	12,000	180,000	224,632	295,800	(\$13,695)		\$282,105
	5/14/2011	2,400	2,640		(12,240)	12,000	158,295	216,985	295,800	\$46,923		\$342,723
	5/15/2011	2,400	2,640		(12,240)	12,000	5,698	217,563	295,800	\$86,259		\$382,059
	5/16/2011	2,400	2,640		(12,240)	12,000	90,875	216,432	295,800	\$263,209		\$559,009
	5/17/2011	2,400	2,640		(12,240)	12,000	132,406	217,630	295,800	\$235,698		\$531,498
RTL F operating day	5/18/2011					12,000	325,000	228,796	443,700			\$443,700

5/19/2011	12,000	88,756	215,684	443,700	\$443,700
5/20/2011	12,000	180,000	224,632	443,700	\$443,700
5/21/2011	12,000	158,295	216,985	443,700	\$443,700
5/22/2011	12,000	5,698	217,563	443,700	\$443,700
5/23/2011	12,000	90,875	216,432	443,700	\$443,700
5/24/2011	12,000	132,406	217,630	443,700	\$443,700

Invoice amount

URTA operating day	5/16/2011	\$0	\$0 assume highest for 60 days
RT	5/15/2011	\$0	
	5/14/2011	\$0	
	5/13/2011	\$0	
	5/12/2011	\$0	
	5/11/2011	\$0	
	5/10/2011	\$0	
	5/9/2011	\$0	
	5/8/2011	\$0	
	5/7/2011	\$0	
	5/6/2011	\$0	
	5/5/2011	\$0	
	5/4/2011	\$0	
	5/3/2011	\$0	

$$\text{Max}\left\{\frac{\sum_{d96,1=\Sigma i k} \left[\sum_{L_{oidk}} * T2 + RTQQNETES_{oidk} * T1 - G_{oidk} * (1 - NUCAD_{Jo}) * T2 \right] * RTSPP_{idk} * PM_o * SAF}{n}, \frac{\sum_{d96,1=\Sigma i} k \left[G_{oidk} * NUCAD_{Jo} * T1 * RTSPP_{idk} * PM_o * SAF \right]}{n}\right\}$$

Hour ending	2	RTSPP	\$24.65
Settlement interval	8	PM	200%
Calendar day	19-May	SAF	1
RTSPP	North Hub	n (# days)	14

PART 1	VOLUME	T2	RTSPP	PM	SAF	T1	NUCADJ
LOAD	168,000		5				840,000

5/18/2011 COMBINED ENTITY

Luminant Proposed

EAL	IEL	\$	-
	DALE	\$	(23,427,360)
	MCE	\$	473,280
	RTLE	\$	2,366,400
	RTLF	\$	(6,211,800)
	RTLCNS	\$	(5,133,013)
	URTA	\$	2,366,400
		\$	2,366,400
OUT		\$	1,319,780
PUL			\$0
CCE		\$	3,686,180

M1 20
M2 20
DALE 7 Days
RTLE 14 Days

$$\text{Max}\left\{\frac{\sum_{d96,1=\Sigma i} \left[L_{oidk} * T2 + RTQNETES_{oidk} * T1 - G_{oidk} * (1 - NUCAD_{Jo}) * T2 \right] * RTSPP_{idk} * PM_o * SAF}{n}, \frac{\sum_{d96,1=\Sigma i} \left[G_{oidk} * NUCAD_{Jo} * T1 * RTSPP_{idk} * PM_o * SAF \right]}{n}\right\}$$

Hour ending	2	RTSPP	\$24.65
Settlement interval	8	PM	200%
Calendar day	19-May	SAF	1
RTSPP	North Hub	n (# days)	14

Input
Output

PART 1	VOLUME	T2	RTSPP	PM	SAF	T1	NUCADJ
LOAD	-		5				-
RTQNETES							
TOTAL QQ PURCHASES (MWh) - Cpty 1	13,440		\$24.65	200%	1	\$	662,592

TOTAL QQ PURCHASES (MWh) - Cpty 2	20,160		\$24.65	200%	1	\$ 993,888					
TOTAL QQ SALES (MWh) - Cpty 1	20,160		\$24.65	200%	1	\$ 993,888					
TOTAL QQ SALES (MWh) - Cpty 2	16,800		\$24.65	200%	1	\$ 828,240					
						\$ 165,648	2			331,296	
GENERATION	336,000	5						20%		1,344,000	\$ (65,927,904)
PART 1 TOTAL											\$ (4,709,136)
PART 2											
GENERATION	336,000		\$24.65	200%	1		2	20%		\$ 473,280	\$ 473,280
MCE											\$ 473,280

		QSE to QSE Pur MWh	QSE to QSE Sales MWh	DA Pur MWh	DA Sales MWh	Imbalance MWh	Total Load MWh	Total Gen MWh	Imbalance Amt \$	Total CRR \$	Other BD \$	RTL \$
RTL CNS operating day	5/8/2011	2,400	2,640		23,760	(24,000)	97,638	213,648	(591,600)	(\$75,236)		(\$666,836)
	5/9/2011	2,400	2,640		23,760	(24,000)	7,853	213,656	(591,600)	\$195,632		(\$395,968)
	5/10/2011	2,400	2,640		23,760	(24,000)	68,234	234,163	(591,600)	\$63,259		(\$528,341)
	5/11/2011	2,400	2,640		23,760	(24,000)	325,000	228,796	(591,600)	\$13,629		(\$577,971)
	5/12/2011	2,400	2,640		23,760	(24,000)	88,756	215,684	(591,600)	(\$32,691)		(\$624,291)
	5/13/2011	2,400	2,640		23,760	(24,000)	180,000	224,632	(591,600)	(\$13,695)		(\$605,295)
	5/14/2011	2,400	2,640		23,760	(24,000)	158,295	216,985	(591,600)	\$46,923		(\$544,677)
	5/15/2011	2,400	2,640		23,760	(24,000)	5,698	217,563	(591,600)	\$86,259		(\$505,341)
	5/16/2011	2,400	2,640		23,760	(24,000)	90,875	216,432	(591,600)	\$263,209		(\$328,391)
	5/17/2011	2,400	2,640		23,760	(24,000)	132,406	217,630	(591,600)	\$235,698		(\$355,902)
RTL F operating day	5/18/2011					(24,000)	325,000	228,796	(887,400)			(\$887,400)

5/19/2011	(24,000)	88,756	215,684	(887,400)	(\$887,400)
5/20/2011	(24,000)	180,000	224,632	(887,400)	(\$887,400)
5/21/2011	(24,000)	158,295	216,985	(887,400)	(\$887,400)
5/22/2011	(24,000)	5,698	217,563	(887,400)	(\$887,400)
5/23/2011	(24,000)	90,875	216,432	(887,400)	(\$887,400)
5/24/2011	(24,000)	132,406	217,630	(887,400)	(\$887,400)

Invoice amount

URTA operating day	5/16/2011	\$118,320	\$118,320 assume highest for 60 days
RT	5/15/2011	\$118,320	
	5/14/2011	\$118,320	
	5/13/2011	\$118,320	
	5/12/2011	\$118,320	
	5/11/2011	\$118,320	
	5/10/2011	\$118,320	
	5/9/2011	\$118,320	
	5/8/2011	\$118,320	
	5/7/2011	\$118,320	
	5/6/2011	\$118,320	
	5/5/2011	\$118,320	
	5/4/2011	\$118,320	
	5/3/2011	\$118,320	

$$\text{Max}\left\{\frac{\sum_{d96,1=\Sigma i k} \left[\sum_{L_{oidk}} * T2 + RTQQNETES_{oidk} * T1 - G_{oidk} * (1 - NUCAD_{Jo}) * T2 \right] * RTSPP_{idk} * PM_o * SAF}{n}, \frac{\sum_{d96,1=\Sigma i} k \sum_{G_{oidk}} * NUCAD_{Jo} * T1 * RTSPP_{idk} * PM_o * SAF}{n}\right\}$$

Hour ending	2	RTSPP	\$24.65
Settlement interval	8	PM	200%
Calendar day	19-May	SAF	1
RTSPP	North Hub	n (# days)	14

PART 1	VOLUME	T2	RTSPP	PM	SAF	T1	NUCADJ
LOAD	168,000		5				840,000

RTQQNETES

TOTAL QQ PURCHASES (MWh) - Cpty 1	13,440	\$24.65	200%	1	\$ 662,592		
TOTAL QQ PURCHASES (MWh) - Cpty 2	20,160	\$24.65	200%	1	\$ 993,888		
TOTAL QQ SALES (MWh) - Cpty 1	20,160	\$24.65	200%	1	\$ 993,888		
TOTAL QQ SALES (MWh) - Cpty 2	16,800	\$24.65	200%	1	\$ 828,240		
					\$ 165,648	2	331,296

161,280

GENERATION	336,000		5			20%	1,344,000	(172,704)
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PART 1 TOTAL \$ (608,165)

PART 2									
GENERATION	336,000	\$24.65	200%	1		2	20%	\$ 473,280	\$ 473,280

MCE \$ 473,280