



TEXAS TECH UNIVERSITY  
HEALTH SCIENCES CENTER™

October 25, 2006

Mr. Greg Davidson  
Executive Clerk to the Governor  
1100 San Jacinto  
Austin, Texas 78701

Mr. John O'Brien  
Deputy Director  
Legislative Budget Board (LBB)  
Robert E. Johnson Bldg. – 5<sup>th</sup> Floor  
1501 North Congress  
Austin, Texas 78701

RE: FY 2006 - 4th Quarter Update

The following is updated information related to requirements requested through Governor's Executive Order RP-49 for the Texas Tech University Health Sciences Center –

Fleet Fuel Management Plan:

Our program continues to emphasize energy conservation awareness with strategies such as regular preventative maintenance and trip efficiencies to gain economies. Actual vehicular fuel consumption was reduced by 0.8% even though mileage slightly increased by 8.3% between the 3<sup>rd</sup> and 4<sup>rd</sup> quarters of FY 2006.

Energy Conservation Plan:

TTUHSC continues to promote energy conservation measures and strategies and seek new ideas to reduce consumption and improve building system efficiencies, to include utilizing energy efficient designs and continuous commissioning efforts. Attached are overall energy consumption (utilities) reports for FY 2005 & FY 2006 for our facilities, Exhibits 1 & 2. A notable reduction in consumption of 3.4% (energy equivalent units) was obtained from our efforts between the 4<sup>th</sup> Quarter of FY 2005 and the 4<sup>th</sup> Quarter of FY 2006 (see final table of Exhibit 2).

Your consideration of this update and information is appreciated.

Sincerely,

George G. Morales, P.E.  
Assistant Vice-President for Physical Plant & Support Services

xc : Mr. Elmo Cavin  
Executive Vice-President of Finance & Administration



## Exhibit 1

### 2005 ACTUAL ENERGY CONSUMPTION

<u>ENERGY</u>	1st Quarter <u>FY 2005</u>	2nd Quarter <u>FY 2005</u>	3rd Quarter <u>FY 2005</u>	4th Quarter <u>FY 2005</u>	Total <u>FY 2005</u>
ELECTRICITY, kwh	9,524,936	8,851,927	9,233,475	10,347,047	37,957,385
NATURAL GAS, ccf	80,248	140,852	79,523	37,971	338,594
STEAM, mlb	20,562	32,167	23,739	14,438	90,906
CHILLED WATER, tn-hr	<u>2,384,502</u>	<u>1,272,229</u>	<u>2,165,303</u>	<u>3,839,264</u>	<u>9,661,298</u>
THERMAL ENERGY*, mbtu	51,705,150	51,390,289	52,642,533	62,285,042	218,023,014
ENERGY EQUIVALENT, mbtu	<u>92,463,251</u>	<u>96,081,501</u>	<u>92,331,348</u>	<u>101,502,932</u>	<u>382,379,032</u>

\*Natural Gas is used to produce the Thermal Energies of Steam and Chilled Water

### 2006 ACTUAL ENERGY CONSUMPTION

<u>ENERGY</u>	1st Quarter <u>FY 2006</u>	2nd Quarter <u>FY 2006</u>	3rd Quarter <u>FY 2006</u>	4th Quarter <u>FY 2006</u>	Total <u>FY 2006</u>
ELECTRICITY, kwh	9,393,292	8,833,109	9,074,251	10,354,326	37,654,978
NATURAL GAS, ccf	64,004	119,741	76,174	38,306	298,225
STEAM, mlb	21,660	31,858	19,564	12,404	85,486
CHILLED WATER, tn-hr	<u>2,603,714</u>	<u>1,784,850</u>	<u>2,496,139</u>	<u>3,742,855</u>	<u>10,627,558</u>
THERMAL ENERGY*, mbtu	55,568,748	57,194,734	51,924,366	58,843,649	223,531,496
ENERGY EQUIVALENT, mbtu	<u>94,207,665</u>	<u>99,651,510</u>	<u>90,725,440</u>	<u>98,120,820</u>	<u>382,705,435</u>

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## Exhibit 2

### TTUHSC'S 2005 ACTUAL ENERGY CONSUMPTION

<b><u>ENERGY</u></b>	<u>1st Quarter FY 2005</u>	<u>2nd Quarter FY 2005</u>	<u>3rd Quarter FY 2005</u>	<u>4th Quarter FY 2005</u>	<u>Total FY 2005</u>
ELECTRICITY, mbtu	32,508,607	30,211,627	31,513,850	35,314,471	129,548,555
NATURAL GAS, mbtu	8,249,494	14,479,586	8,174,964	3,903,419	34,807,463
THERMAL ENERGY*, mbtu	<u>51,705,150</u>	<u>51,390,289</u>	<u>52,642,533</u>	<u>62,285,042</u>	<u>218,023,014</u>
ENERGY EQUIVALENT, mbtu	<u>92,463,251</u>	<u>96,081,501</u>	<u>92,331,348</u>	<u>101,502,932</u>	<u>382,379,032</u>

\*Natural Gas is used to produce the Thermal Energies of Steam and Chilled Water

### TTUHSC'S 2006 ACTUAL ENERGY CONSUMPTION

<b><u>ENERGY</u></b>	<u>1st Quarter FY 2006</u>	<u>2nd Quarter FY 2006</u>	<u>3rd Quarter FY 2006</u>	<u>4th Quarter FY 2006</u>	<u>Total FY 2006</u>
ELECTRICITY, mbtu	32,059,306	30,147,401	30,970,419	35,339,315	128,516,440
NATURAL GAS, mbtu	6,579,611	12,309,375	7,830,656	3,937,857	30,657,498
THERMAL ENERGY*, mbtu	<u>55,568,748</u>	<u>57,194,734</u>	<u>51,924,366</u>	<u>58,843,649</u>	<u>223,531,496</u>
ENERGY EQUIVALENT, mbtu	<u>94,207,665</u>	<u>99,651,510</u>	<u>90,725,440</u>	<u>98,120,820</u>	<u>382,705,435</u>

\*Natural Gas is used to produce the Thermal Energies of Steam and Chilled Water

### TTUHSC'S 2006 ACTUAL OVER/(UNDER) 2005 ACTUAL

<b><u>ENERGY</u></b>	<u>1st Quarter</u>	<u>2nd Quarter</u>	<u>3rd Quarter</u>	<u>4th Quarter</u>	<u>Total</u>
ELECTRICITY, mbtu	-1.4%	-0.2%	-1.8%	0.1%	-0.8%
NATURAL GAS, mbtu	-25.4%	-17.6%	-4.4%	0.9%	-13.5%
THERMAL ENERGY*, mbtu	<u>7.0%</u>	<u>10.1%</u>	<u>-1.4%</u>	<u>-5.8%</u>	<u>2.5%</u>
ENERGY EQUIVALENT, mbtu	<u>1.9%</u>	<u>3.6%</u>	<u>-1.8%</u>	<u>-3.4%</u>	<u>0.1%</u>

\*Natural Gas is used to produce the Thermal Energies of Steam and Chilled Water