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Commissioners
William D. Darby
Virginia Hermosa
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Mike Novak
Jack W. Perry
Alvin Shaw



Executive Director Terry Keel

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July 7, 2014

The Honorable Rick Perry Office of the Governor 1100 San Jacinto Austin, Texas 78701

Ms, Ursula Parks Director Legislative Budget Board 1501 North Congress Austin, Texas 78701

Mr. Dub Taylor Director State Energy Conservation Office 111 East 17th Street, #1114 Austin, Texas 78701

RE: RP-49, FY 2014 – 3rd Quarter Update

PO Box 12428 Austin, Texas 78711-2428

PO Box 12666, Capitol Station Austin, Texas 78711

The Texas Facilities Commission's (TFC) Energy Savings Program Quarterly Update is submitted in accordance with Governor's Executive Order, RP 49 and Texas Gov't Code § 2166.409 as amended by the 83rd Legislature, Electric Conservation by State Agencies. TFC's Office of Energy Management (OEM) is responsible for management of the agency's Utility Savings and Resource Conservation Program. OEM is pursuing multiple strategies and interfacing with a number of program areas to achieve their goals. Notable efforts include:

- Utility Invoicing Analysis: This collaboration between OEM and TFC Fiscal is an effort to review and evaluate utility invoices received for accuracy. This forensic approach to utility usage and costs is expected to reveal any issues with inefficiently operating systems/equipment and/or incorrect invoicing. The collaborative effort has already identified \$120,000 in billing mistakes that will be credited to TFC by Austin Energy.
- **Deferred Maintenance System Upgrades:** Various facilities were targeted for system upgrades for 2012/13 and 2014/15 through the TFC deferred maintenance program. OEM continues to work with Project Management to influence project scopes for energy & operational enhancements with deferred maintenance funding. OEM will continue working with FDC Project Management to ensure eligible energy rebates are pursued throughout the entire project portfolio, such as the \$20,694.00 rebate recently awarded for work performed at TCEQ's Park 35 Building A.

• TFC Agreement with Austin Energy for Curtailment of Electricity Usage (Load Cooperative): A partnership with Austin's energy provider to curtail consumption during peak demands in exchange for utility bill rebates that has generated approximately \$2,000 in energy rebates to date in 2014 (2 curtailment requests). Plans are underway to maximize the benefit of this program for the 2014 cooling season.

If you have any questions or need additional information, please contact me at (512) 463-3567 or email me at John.Raff@TFC.state.tx.us.

Sincerely,

John S. Raff, P.E.

JLSR#

Deputy Executive Director
Facilities Design & Construction
Texas Facilities Commission

Energy Conservation Plan 3rd Quarter FY2014

Texas Facilities Commission

COVERING THE PERIOD MARCH 1, 2014 THROUGH MAY 31, 2014

Texas Facilities Commission

Chairman
Betty Reinbeck
Commissioners
William D. Darby
Virginia Hermosa
Brant C. Ince
Mike Novak
Jack W. Perry
Alvin Shaw

Executive Director Terry Keel

This report is submitted by the Texas Facilities Commission in accordance with Executive Order No. 49, Tex. Gov. Exec. Order RP49 (Oct. 27, 2005) and Texas Gov't Code § 2166.409 | Date Enacted: 05/23/13 | Date of Last Amend: 05/23/13, requiring each state agency to develop a plan for conserving energy and to report back to the Office of the Governor and the Legislative Budget Board on a quarterly basis with goals achieved and ideas for additional savings. This report is also available on the Texas Facilities Commission website at http://www.tfc.state.tx.us/divisions/commissionadmin/tools. For general information about this report, contact Farshad Shahsavary, Manager of Energy and Engineering at (512) 463-7366.

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I. Executive Summary

The objective of the Office of Energy Management (OEM) is to identify and implement strategies for the Commission's building inventory to achieve energy and other utility savings while maintaining a healthy and comfortable work environment. OEM works across the lines of multiple program areas to pursue these strategies, ranging from reviewing repairs, and equipment replacements for Operations and Maintenance, to implementing operations initiatives through Building Automation and Controls, to consultation with project management on deferred maintenance projects. The OEM Program also pursues a certain portfolio of independent projects that contribute to the overall goals of the program. Additionally, OEM is involved with negotiations of lower cost energy contracts with utility providers, modification of existing building mechanical systems with digital building automation and energy management systems; specification of energy efficient equipment and systems in the replacement of antiquated systems; assessment of emerging alternative energy solutions, and utilization of energy programs, low cost energy loans and grants where feasible to achieve these goals.

II. Definitions and Acronyms

The terms and acronyms used in this report and/or in other quarterly energy conservation plan reports are defined below for reference:

- "AHU" means air handling unit which circulates air as part of an HVAC system.
- "BAS" means building automation system.
- "BHB" means the Brown-Heatly Building.
- "CFL" means compact fluorescent lamp.
- "CHP" means combined heat and power plant and is defined as the use of a heat engine or a power station to simultaneously generate both electricity and useful heat.
- "CPP" means central physical plant.
- "CWS" means Condenser Water system
- "DARS" means the Department of Assistive and Rehabilitative Services.
- "DHNL" means the Department of State Health Services New Laboratory.
- "DM" means deferred maintenance.
- "DOE" means (federal) Department of Energy.
- "EMS" means energy monitoring system.
- "EOT" means the E. O. Thompson Building.
- "ERCOT" means Electric Reliability Council of Texas
- "FY" means fiscal year.
- "HVAC" means heating, ventilation, and air conditioning.
- "JER" means the James E. Rudder Building.
- "JHR" means the John H. Reagan Building.
- "JHW" means the John H. Winters Building.
- "LAR" means Legislative Appropriations Request
- "LED" means light emitting diode.
- "Motors" means ultra-high efficient motors.
- "FEE" means Facility Energy & Engineering
- "OEM" means Office of Energy Management.
- "PDB" means the Price Daniel, Sr. Building.
- "RDM" means the Robert D. Moreton Building.
- "REJ" means the Robert E. Johnson Building.

Energy Conservation Plan Quarterly Report, 3rd Quarter FY2014

- "SCADA" means the supervisory control and data acquisition.
- "SCB" means the Supreme Court Building.
- "SECO" means the State Energy Conservation Office.
- "SFA" means the Stephen F. Austin Building.
- "SHB" means the Sam Houston Building.
- "TCC" means the Tom C. Clark Building.
- "TES" means thermal energy storage system.
- "TFC" means the Texas Facilities Commission.
- "TLC" means Texas Legislative Council.
- "TIERS" refers to a Data Center in JHW that is rated per Telecom Industry Standard TIA-942 system.
- "TJR" means the Thomas Jefferson Rusk Building.
- "VFD" means variable frequency drive.
- "WBT" means the William B. Travis Building.
- "WPC" means the William P. Clements Building.

III. Ongoing Energy and Forensics

Energy consumption data continues to indicate a decline into FY2014 as compared to that of FY2012 and FY2013. The chart below (Figure 1) represents comparison and trends for the TFC's quarterly electrical consumption (KWH) complete through 2QFY14. Generally 5%-6% reduction in electrical energy consumption is represented by comparing the first three quarters of FY10 through FY13. 4QFY13 was higher than 4QFY12 due to Legislative sessions requiring high building usage. Attachment A (at the end of this document) shows historical utility usage and costs across the TFC portfolio.

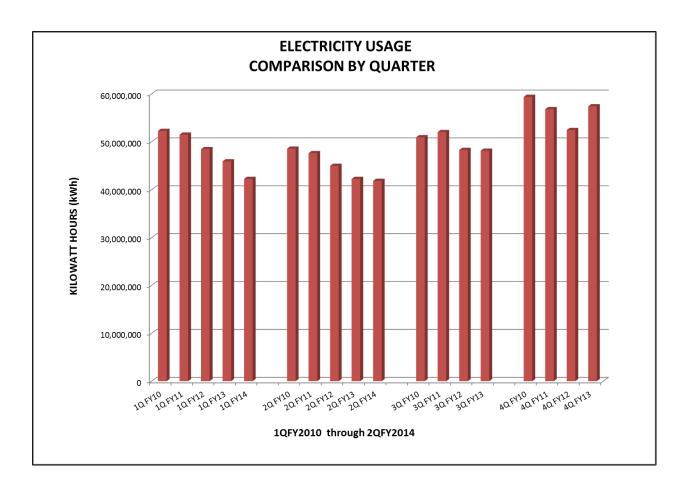


Figure 1- TFC Quarterly Electrical Energy Consumption (KWH)

Energy Work Group Meetings: OEM will continue to organize regular meetings of the TFC Energy Work Group which includes Commissioners Novak and Hermosa, FDC Management, TFC Fiscal Management, and Property/Real Estate Management. In 2014 OEM is focusing on three areas in order to maximize results. These areas are:

1- Developing a plan to collaborate with the fiscal division to perform a more rigorous review of our utility bills to verify their accuracy and to identify anomalies. This will ensure we are paying for accurately recorded consumption and expose any operational issues that may be wasting resources.

- 2- OEM continuing support of the deferred maintenance program in reviewing designs, making suggestions for improvement, and vetting proposals for use of new technology.
- 3- Expansion of the load cooperative agreement with Austin Energy for the coming cooling season. These high priority efforts are outlined in more detail below.

While concentrating on these main focus areas OEM will continue to actively manage and study other means to further increase energy efficiency across TFC platform. Some of these efforts and strategies are listed in this report.

Utility Invoicing Analysis (High Priority): This collaboration between OEM and Fiscal is an effort to review and evaluate utility invoices received for accuracy. This forensic approach to utility usage and costs is expected to reveal any issues with inefficiently operating systems/equipment and/or incorrect invoicing. OEM's recent initiation of interfacing with ECOVA, the State's contractor responsible for utility invoice data compilation and evaluation, has also begun to yield opportunities for improvement previously unrecognized. OEM is continuing this effort and has already identified \$120,000 in billing mistakes that will be credited to TFC by Austin Energy. Further billing audits and settlements are expected and will be reported.

Deferred Maintenance System Upgrades: Various facilities were targeted for system upgrades for 2012/13 and 2014/15 through the TFC deferred maintenance program. OEM continues to work with Project Management to influence project scopes for energy & operational enhancements with deferred maintenance funding. Enhancements implemented after 9/1/2011 will comply with SECO enhanced energy and performance codes such as Water Efficiency Standards for State Buildings & Institutions of Higher Education Facilities, ASHRAE 90.1 (2010), and ASHRAE 62 (2004) & 2009 IECC.

OEM will continue working with FDC Project Management to ensure eligible energy rebates are pursued throughout the entire project portfolio. FY12-13 and FY10-11 projects which are concluding have begun to generate rebates with energy providers including a \$20,694.00 rebate for work performed at TCEQ's Park 35, Building A with more rebates expected during the next quarter.

TFC Agreement with Austin Energy for Curtailment of Electricity Usage (Load Cooperative): TFC has contracted with Austin Energy for the 2014 calendar year to voluntarily curtail electrical load during excessively hot days when either generation or transmission capacity limits are potentially challenged. The Building Automation Team Manager's position has been filled and that individual is working with OEM on the execution of the Load Cooperative effort. OEM has already received two curtailment requests thus far this cooling season. TFC's response to these curtailment requests have yielded an estimated \$1,900 in energy bill rebates. (Additional savings of an unquantifiable amount are realized from reduced consumption resulting from TFC's curtailment activities to reduce the electrical demand.)

Temperature Adjustments for Energy Conservation: OEM with the cooperation from TFC's Building Automation Team is continuing to evaluate buildings to modify set points for energy conservation on a case by case basis. The expectations, as our trial efforts in 2013 have shown, indicate significant energy savings can be met without creating comfort issues. This methodology will be applied to other buildings throughout TFC's inventory during the upcoming cooling season.

Building Energy Walkthrough Audits: OEM is continuing the process of performing "energy walkthrough audits" of buildings within its inventory. These walkthroughs, performed with building technicians, the building manager, and automation personnel are intended to 1) familiarize all parties with the mechanical / electrical systems in the buildings, 2) reveal potential energy savings opportunities as candidates for funding and 3) verify /refine scopes of work for deferred maintenance activity. These walkthroughs will continue upon availability of the Building Automation team, a critical participant in adjusting building controls to reduce energy usage.

Energy Efficiency and Sustainability Campaign: Based on the direction given by the Energy Work Group, OEM is continuing to work with our property management division to establish an ongoing energy efficiency and sustainability campaign as resources allow. A new inventory wide communique is expected to be published shortly.

William P. Hobby (WPH): The engineering study to perform an HVAC review of air moving equipment in addition to garage lighting study for WPH is being appropriately combined with authorized FY2014-15 deferred maintenance scoped projects.

Central Services Building (CSB): OEM has begun the project to identify and install occupancy sensors and building automation in CSB through initial discussions with an engineering firm. This project will be appropriately combined with authorized FY2014-15 deferred maintenance scoped projects. Plans for building automation installation include the application of utility meters (electricity, natural gas, and water). CSB metering installation will be used as a "pilot" program to study future TFC wide utility metering installations. Authorized FY 2014-15 deferred maintenance projects include scope that will allow for the development of standard specifications for the two types of building automation systems that are ubiquitous within TFC's inventory.

John W. Winters Building (JHW): OEM is working through the Project Management team to improve outside air systems in each of the 3 buildings of JHW. This work should return JHW to more efficient HVAC operations and will set the stage for significant deferred maintenance improvements on the data center infrastructure over the next two years.

IV. Future Energy and Resource Reduction Plans

Building Energy Walkthrough Audits: OEM will continue performing "energy walkthrough audits" of buildings within its inventory to reveal potential energy savings opportunities as candidates for funding and verify / refine scopes of work for deferred maintenance activity.

Continuation of temperature adjustments for energy conservation: OEM will continue to work with Building Automation and Property Management to adjust and refine temperature set points to improve energy efficiency and energy cost savings across the TFC inventory. As previously mentioned this work will be expanded into all other TFC facilities in an ongoing effort.

Austin Energy electric rates following the existing Long Term Contract (Summer 2015): OEM has begun discussions with Austin Energy on rate structures following the expiration of the current Long Term Contract in May of 2015.

Performance Contracting: A draft Scope of Work has been prepared to initiate a Request for Qualification for an energy project to be undertaken by TFC. This project is expected to include such energy measures as lighting upgrades, building envelope upgrades, mechanical/controls upgrades and commissioning of mechanical/lighting systems. OEM has identified an array of facilities that would serve as a good fit for this project method. These facilities will be vetted as the project matures.

Central Plant Optimization (Ongoing): Sam Houston and Stephen F. Austin physical plants are responsible for providing air conditioning and heating to 17 separate facilities. TFC is beginning to convert these plants into fully variable plants, initially concentrating on the Sam Houston plant. Demand flow control strategies are being considered for controlling these variable plants. Such strategies are estimated to increase chilled water energy efficiencies by 35%.

Water Conservation Plan: TFC will continue implementing several water efficiency strategies in properties throughout its inventory in compliance with SECO's requirements including the installation of water

conserving plumbing fixtures for replacement of plumbing fixtures as routine maintenance, metering key water process use areas within the TFC building inventory, and implementing water conservation in landscaping modifications as the opportunities arise. Additional in-depth study is needed.

TFC Plumbing Fixture Flow Requirements												
	Flow											
Fixture Type	Requirements	Comments										
Water Closets Flush	1.28 gpf MAX											
Valves												
Urinal Flush Valves	0.25 gpf MAX											
Lavatory Faucets	0.5 gpm MAX	Lavatory faucets shall be										
		self closing (automatic										
		sensor preferred for TFC										
		projects)										
Showerheads		Must meet EPA										
		WaterSense criteria										
Water Fountains		Must be self-closing										

Table.1 – Water Saving Fixtures

Occupancy Sensor Installations (Contingent upon funding availability): TFC is pursuing the installation of occupancy sensors across its portfolio to control internal lighting and HVAC systems. This initiative will begin with a few small pilot installations to test their effectiveness and tenant response. This is a major, multiyear effort but could result in significant energy and cost savings.

Measuring and Rebalancing Outside-Air and Pressurization of TFC Buildings (Contingent upon funding availability): TFC is planning new efforts to begin measuring outside air flow (compared to industry guidelines) into its buildings. While this program may be cost neutral from an energy conservation approach, it is essential to providing a quality work environment for State employees. TFC considers outside air and internal air quality as an issue that directly affects energy consumption and therefore a metric that merits OEM's attention. This is a multi-year project and contingent upon funding availability.

Alternative Energy (Contingent upon funding availability): TFC is considering various types of alternative energy to power our portfolio. In most instances the alternative energy sources are costly or impractical but there are other options. As an example, one option is to contract and purchase Green-Choice electricity from Austin Energy. Green-Choice is a wind power contract with Austin Energy supporting the production of wind generated power. The Green-Choice power normally costs more than the current contract or commercial rates but the rates are locked and immune from escalation for the period of the contract. Currently the proposed rates by Austin Energy are too high, but TFC will monitor these opportunities for their potential to reach a cost neutral or cost savings level of performance.

Energy Contract Solicitation/Negotiation OEM is guiding TFC's efforts in the solicitation and negotiation of a new electrical utility contract in the deregulated energy market for our buildings in Houston, Waco and Fort Worth. Shopping this service in the deregulated energy market will ensure competitive and best value electrical utility rates for our assets that obtain their energy from this market. OEM is partnering with TFC's Procurement Division to either research energy procurement document templates for a TFC self-performed solicitation or to partner with an on-going State contractor that offers this solicitation service.

V. Conclusion

TFC is committed to identifying and implementing practical ways of managing resources with a focus on continuous improvement. TFC strives to provide the highest quality facilities and utility services to state agencies with a commitment to fiscal responsibility and stewardship of resources. Comments or suggestions for improvements that can be made to TFC's on-going, current, or future projects are welcome. Please direct your comments to John Raff, Deputy Executive Director, at (512) 463-3567 or Farshad Shahsavary, Manager of Energy and Engineering at (512) 463-7366.

Attachment A: Historical Utility Use and Cost Report:

	State of Texas - TFC Utility Use and Cost History 09/2010 thru 05/2014											
	Electricity	Total	Natural Gas	Natural	Chilled	Water	Water	Waste	Total			
Date	(kWh)	Elec Cost	(Therms)	Gas Cost	Water Cost	(CCF)	Cost	Water Cost	Utility Cost			
09/10	18,183,704	\$1,292,738	115,274	\$64,557	\$13,770	27,596	\$99,190	\$81,708	\$1,551,963			
10/10	17,234,821	\$1,218,621	134,410	\$72,759	\$13,755	26,159		\$83,692	\$1,480,149			
11/10	16,072,821	\$1,128,700	214,624	\$116,306	\$13,614	20,519		\$70,816	\$1,400,071			
12/10	16,328,573		290,216	\$182,757	\$13,742	17,945		\$66,207	\$1,396,676			
01/11	16,231,173	\$1,112,945	330,415	\$196,213	\$14,355	15,758	\$55,988	\$82,652	\$1,462,153			
02/11	15,065,375	\$1,038,571	273,161	\$182,056	\$14,358	16,266		\$68,224	\$1,362,068			
03/11	16,813,005	\$1,084,064	198,399	\$111,545	\$14,377	23,936		\$78,735	\$1,371,667			
04/11	16,984,671	\$1,154,731	145,624	\$93,286	\$14,377	30,180		\$83,441	\$1,449,147			
05/11 06/11	18,226,578 18,605,516	\$1,195,019 \$1,217,055	129,547 91,648	\$79,877 \$57,305	\$14,377 \$14,376	36,227 38,719	\$123,182 \$142,087	\$93,153 \$94,965	\$1,505,608 \$1,525,788			
07/11	19,083,927	\$1,217,055	88,746	\$60,877	\$14,379	42,759		\$105,350	\$1,523,760			
08/11	19,124,858		89,250	\$58,204	\$14,375	45,094		\$127,163	\$1,610,328			
Annual Total	207,955,022	\$14,040,239	2,101,312	\$1,275,740	\$169,856		\$1,208,100		\$17,730,041			
							, , ,	. , ,				
09/11	16,884,761	\$1,095,462	94,592	\$7,267	\$14,390	33,227	\$123,341	\$94,516	\$1,334,976			
10/11	16,347,268	\$987,833	120,544	\$63,773	\$14,380	86,594		\$85,663	\$1,457,590			
11/11	15,221,403	\$906,770	176,814	\$418,089	\$14,371	49,493		\$74,691	\$1,578,873			
12/11	15,411,633	\$972,680	297,990	\$37,569	\$14,380	19,631	\$74,927	\$72,262	\$1,171,818			
01/12 02/12	15,317,242	\$1,113,489 \$1,031,937	258,582	\$6,164 \$131,797	\$14,835 ¢14,931	18,081 15,990		\$76,966 ¢67,649	\$1,284,877			
03/12	14,246,912 15,822,720	\$1,051,937	232,063 168,439	\$74,923	\$14,831 \$14,823	18,714		\$67,648 \$80,848	\$1,309,802 \$1,400,056			
04/12	15,651,138	\$1,142,178	125,015	\$48,225	\$14,827	26,562	\$101,795	\$84,043	\$1,391,068			
05/12	16,824,707	\$1,192,861	114,885	\$42,423	\$14,830	31,805		\$106,891	\$1,476,915			
06/12	17,308,941	\$1,220,234	90,632	\$9,206	\$14,830	36,468		\$107,096	\$1,497,964			
07/12	17,528,810		90,096	\$45,426	\$14,836	35,612	\$145,963	\$101,289	\$1,537,870			
08/12	17,614,691	\$1,298,932	87,937	\$46,929	\$15,320	43,598		\$112,467	\$1,651,679			
Annual Total	194,180,227	\$13,347,927	1,857,589	\$931,790	\$176,652	415,776	\$1,572,740	\$1,064,381	\$17,093,490			
09/12	16,234,449	\$1,251,375	83,076	\$37,622	\$14,375	31,372	\$129,905	\$94,683	\$1,527,960			
10/12	16,745,813		117,707	\$64,389	\$14,842	24,704		\$92,607	\$1,454,169			
11/12	15,237,586	\$1,074,509	179,635	\$93,532	\$14,841	24,224		\$82,555	\$1,359,623			
12/12 01/13	14,078,194 15,812,606	\$1,038,558 \$1,073,792	257,574 294,748	\$157,263 \$165,116	\$14,839 \$0	18,818 16,641	\$75,498 \$76,530	\$72,812 \$77,811	\$1,358,970 \$1,393,249			
02/13	14,471,636	\$989,287	220,361	\$76,369	\$14,825	18,992	\$83,621	\$77,011	\$1,393,249 \$1,239,353			
03/13	16,899,369	\$1,394,839	222,955	\$90,883	\$14,821	23,220		\$97,287	\$1,697,476			
04/13	16,293,189	\$1,436,078	181,379	\$109,812	\$14,820	22,098		\$89,262	\$1,743,792			
05/13	17,940,855		147,855	\$82,871	\$14,829	26,966	\$111,986		\$1,700,452			
06/13	18,484,998		107,077	\$79,041	\$14,829	32,429	\$140,191	\$108,974	\$1,861,377			
07/13	19,354,947	\$1,314,117	91,293	\$60,881	\$14,830	35,761		\$108,874	\$1,654,792			
08/13	22,100,031		90,147	\$46,904	\$14,828	36,170		\$110,008	\$1,729,494			
Annual Total	203,653,672	\$15,048,565	1,993,808	\$1,064,683	\$162,680	311,395	\$1,318,460	\$1,126,319	\$18,720,707			
09/13*	24,188,685*	\$1,568,944*	94,216	\$60,824	\$14,847	28,939		\$98,060	\$1,872,206*			
10/13	14,624,281		128,830	\$72,072	\$14,840	21,725		\$90,237	\$1,330,209			
11/13	13,552,431	\$997,229	211,097	\$107,218	\$14,829	17,003	\$82,918	\$77,366	\$1,279,560			
Dec-13	14,074,834	\$1,029,108	316,288	\$186,077	\$14,826	69,349		\$75,412	\$1,384,021			
Jan-14	14,308,749		318,256	\$220,610	\$15,298	36,108		\$74,253	\$1,434,730			
Feb-14	13,446,268	\$953,006	307,986	\$196,118	\$15,295	15,485	\$76,421	\$71,725	\$1,312,565			
03/14*	14,446,139	\$1,020,897	258,967	\$160,452	\$15,294	20,616	\$97,781	\$89,546	\$1,383,968			
04/14*	13,683,169	\$1,074,883	172,034	\$121,817	\$15,287	23,454		\$86,193	\$1,407,477			
05/14*	14,269,703	\$1,100,807	115,792	\$86,068	\$15,293	26,339	\$121,202	\$97,287	\$1,420,657			