

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549

FORM 10-Q

Quarterly Report Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934 for the Quarterly Period Ended September 30, 2009.

or

Transition Report Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934 for the Transition Period from \_\_\_\_\_ to \_\_\_\_\_.

Commission File Number: 001-14785

**GSE SYSTEMS, INC.**

(Exact name of registrant as specified in its charter)

Delaware  
(State of incorporation)

52-1868008  
(I.R.S. Employer Identification No.)

1332 Londontown Blvd., Suite 200, Sykesville, MD 21784  
(Address of principal executive office and zip code)

Registrant's telephone number, including area code: (410) 970-7800

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Sections 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the Registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes  No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "accelerated filer", "large accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer

Accelerated filer

Non-accelerated filer

Smaller reporting company

(Do not check if a smaller reporting company)

Indicate by check mark whether the registrant is a shell company (as defined in rule 12(b)-2 of the Exchange Act). Yes  No

There were 18,925,370 shares of common stock, with a par value of \$.01 per share outstanding as of November 6, 2009.

**GSE SYSTEMS, INC.**  
**QUARTERLY REPORT ON FORM 10-Q**  
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**PART I - FINANCIAL INFORMATION****Item 1. Financial Statements****GSE SYSTEMS, INC. AND SUBSIDIARIES****CONSOLIDATED BALANCE SHEETS***(in thousands, except share data)*

	<b>Unaudited</b>	
	<b>September 30, 2009</b>	<b>December 31, 2008</b>
<b>ASSETS</b>		
Current assets:		
Cash and cash equivalents	\$ 21,717	\$ 8,274
Restricted cash	3,825	2,962
Contract receivables	15,824	10,951
Prepaid expenses and other current assets	1,378	1,110
Total current assets	<u>42,744</u>	<u>23,297</u>
Equipment and leasehold improvements, net	1,019	1,133
Software development costs, net	1,609	1,487
Goodwill	1,739	1,739
Long-term restricted cash	2,391	2,027
Other assets	677	1,332
Total assets	<u>\$ 50,179</u>	<u>\$ 31,015</u>
<b>LIABILITIES AND STOCKHOLDERS' EQUITY</b>		
Current liabilities:		
Accounts payable	\$ 3,276	\$ 1,655
Accrued expenses	722	685
Accrued compensation and payroll taxes	1,546	1,234
Billings in excess of revenue earned	2,809	4,020
Accrued warranty	1,155	1,066
Other current liabilities	814	749
Total current liabilities	<u>10,322</u>	<u>9,409</u>
Other liabilities	670	906
Total liabilities	<u>10,992</u>	<u>10,315</u>
Commitments and contingencies	-	-
Stockholders' equity:		
Preferred stock \$.01 par value, 2,000,000 shares authorized, shares issued and outstanding none in 2009 and 2008	-	-
Common stock \$.01 par value, 30,000,000 shares authorized, shares issued and outstanding 18,925,370 in 2009 and 15,968,122 in 2008	189	160
Additional paid-in capital	67,325	50,572
Accumulated deficit	(27,456)	(28,818)
Accumulated other comprehensive loss	(871)	(1,214)
Total stockholders' equity	<u>39,187</u>	<u>20,700</u>
Total liabilities and stockholders' equity	<u>\$ 50,179</u>	<u>\$ 31,015</u>

The accompanying notes are an integral part of these consolidated financial statements.

**GSE SYSTEMS, INC. AND SUBSIDIARIES**  
**CONSOLIDATED STATEMENTS OF OPERATIONS**  
*(in thousands, except per share data)*  
*(Unaudited)*

	<b>Three months ended</b>		<b>Nine months ended</b>	
	<b>September 30,</b>		<b>September 30,</b>	
	<b>2009</b>	<b>2008</b>	<b>2009</b>	<b>2008</b>
Contract revenue	\$ 10,217	\$ 7,001	\$ 28,995	\$ 20,639
Cost of revenue	<u>7,662</u>	<u>5,023</u>	<u>21,398</u>	<u>14,889</u>
Gross profit	<u>2,555</u>	<u>1,978</u>	<u>7,597</u>	<u>5,750</u>
Operating expenses:				
Selling, general and administrative	2,000	1,694	5,611	5,585
Depreciation	<u>127</u>	<u>114</u>	<u>369</u>	<u>317</u>
Total operating expenses	<u>2,127</u>	<u>1,808</u>	<u>5,980</u>	<u>5,902</u>
Operating income (loss)	428	170	1,617	(152)
Interest income, net	16	42	50	76
Gain (loss) on derivative instruments	523	(170)	730	(165)
Other expense, net	<u>(97)</u>	<u>(43)</u>	<u>(318)</u>	<u>(172)</u>
Income (loss) before income taxes	870	(1)	2,079	(413)
Provision for income taxes	<u>412</u>	<u>57</u>	<u>717</u>	<u>208</u>
Net income (loss)	<u>\$ 458</u>	<u>\$ (58)</u>	<u>\$ 1,362</u>	<u>\$ (621)</u>
Basic income (loss) per common share	<u>\$ 0.03</u>	<u>\$ 0.00</u>	<u>\$ 0.08</u>	<u>\$ (0.04)</u>
Diluted income (loss) per common share	<u>\$ 0.03</u>	<u>\$ 0.00</u>	<u>\$ 0.08</u>	<u>\$ (0.04)</u>

The accompanying notes are an integral part of these consolidated financial statements.

**GSE SYSTEMS, INC. AND SUBSIDIARIES**  
**CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (LOSS)**  
*(in thousands)*  
*(Unaudited)*

	<b>Three months ended</b>		<b>Nine months ended</b>	
	<b>September 30,</b>		<b>September 30,</b>	
	<u><b>2009</b></u>	<u><b>2008</b></u>	<u><b>2009</b></u>	<u><b>2008</b></u>
Net income (loss)	\$ 458	\$ (58)	\$ 1,362	\$ (621)
Foreign currency translation adjustment	<u>314</u>	<u>(224)</u>	<u>343</u>	<u>(136)</u>
Comprehensive income (loss)	<u>\$ 772</u>	<u>\$ (282)</u>	<u>\$ 1,705</u>	<u>\$ (757)</u>

The accompanying notes are an integral part of these consolidated financial statements.

**GSE SYSTEMS, INC. AND SUBSIDIARIES**  
**CONSOLIDATED STATEMENT OF CHANGES IN STOCKHOLDERS' EQUITY**  
*(in thousands)*  
*(Unaudited)*

	<u>Preferred Stock</u>		<u>Common Stock</u>		<u>Additional Paid-in Capital</u>	<u>Accumulated Deficit</u>	<u>Accumulated Other Comprehensive Loss</u>	<u>Total</u>
	<u>Shares</u>	<u>Amount</u>	<u>Shares</u>	<u>Amount</u>				
<b>Balance, January 1, 2009</b>	-	\$ -	15,968	\$ 160	\$ 50,572	\$ (28,818)	\$ (1,214)	\$ 20,700
Stock-based compensation expense	-	-	-	-	685	-	-	685
Issuance of common stock	-	-	2,875	29	15,863	-	-	15,892
Common stock issued for options exercised	-	-	58	-	103	-	-	103
Common stock issued for services provided	-	-	14	-	84	-	-	84
Common stock issued for warrants exercised	-	-	10	-	18	-	-	18
Foreign currency translation adjustment	-	-	-	-	-	-	343	343
Net income	-	-	-	-	-	1,362	-	1,362
<b>Balance, September 30, 2009</b>	<u>-</u>	<u>\$ -</u>	<u>18,925</u>	<u>\$ 189</u>	<u>\$ 67,325</u>	<u>\$ (27,456)</u>	<u>\$ (871)</u>	<u>\$ 39,187</u>

The accompanying notes are an integral part of these consolidated financial statements.

**GSE SYSTEMS, INC. AND SUBSIDIARIES**  
**CONSOLIDATED STATEMENTS OF CASH FLOWS**  
*(in thousands)*  
*(Unaudited)*

	<b>Nine months ended</b>	
	<b>September 30,</b>	
	<b>2009</b>	<b>2008</b>
<b>Cash flows from operating activities:</b>		
Net income (loss)	\$ 1,362	\$ (621)
Adjustments to reconcile net income (loss) to net cash provided by (used in) operating activities:		
Depreciation	369	317
Capitalized software amortization	354	195
Amortization of deferred financing costs	37	124
Stock-based compensation expense	769	426
Elimination of profit on Emirates Simulation Academy, LLC contract	-	38
Amortization of deferred profit on Emirates Simulation Academy, LLC contract	(136)	-
Equity loss on investment in Emirates Simulation Academy, LLC	466	138
(Gain)/loss on derivative instruments	(730)	165
Changes in assets and liabilities:		
Contract receivables	(5,021)	(1,162)
Prepaid expenses and other assets	293	(37)
Accounts payable, accrued compensation and accrued expenses	2,129	(620)
Billings in excess of revenues earned	(1,144)	1,402
Accrued warranty reserves	89	237
Other liabilities	506	171
<b>Net cash provided by (used in) operating activities</b>	<b>(657)</b>	<b>773</b>
<b>Cash flows from investing activities:</b>		
Capital expenditures	(256)	(600)
Capitalized software development costs	(476)	(530)
Investment in Emirates Simulation Academy, LLC	-	(422)
Restriction of cash as collateral for letters of credit, bank guarantees and foreign currency contracts	(626)	(358)
<b>Net cash used in investing activities</b>	<b>(1,358)</b>	<b>(1,910)</b>
<b>Cash flows from financing activities:</b>		
Net proceeds from issuance of common stock	16,013	571
Restriction of cash for credit facility collateral	(600)	-
Deferred financing costs	(20)	(88)
<b>Net cash provided by financing activities</b>	<b>15,393</b>	<b>483</b>
Effect of exchange rate changes on cash	65	(5)
<b>Net increase (decrease) in cash and cash equivalents</b>	<b>13,443</b>	<b>(659)</b>
<b>Cash and cash equivalents at beginning of year</b>	<b>8,274</b>	<b>8,172</b>
<b>Cash and cash equivalents at end of period</b>	<b>\$ 21,717</b>	<b>\$ 7,513</b>

The accompanying notes are an integral part of these consolidated financial statements.

**GSE SYSTEMS, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**For the Three and Nine Months ended September 30, 2009 and 2008**  
*(Unaudited)*

**1. Basis of Presentation and Revenue Recognition**

*Basis of Presentation*

The consolidated financial statements included herein have been prepared by GSE Systems, Inc. (the “Company” or “GSE”) without independent audit. In the opinion of the Company's management, all adjustments and reclassifications of a normal and recurring nature necessary to present fairly the financial position, results of operations and cash flows for the periods presented have been made. Certain information and footnote disclosures normally included in financial statements prepared in accordance with U.S. generally accepted accounting principles (“GAAP”) have been condensed or omitted. The results of operations for interim periods are not necessarily an indication of the results for the full year. These consolidated financial statements should be read in conjunction with the consolidated financial statements and notes thereto included in the Company's Annual Report on Form 10-K for the period ended December 31, 2008 filed with the Securities and Exchange Commission on March 16, 2009.

The Company has only one reportable segment. The Company has a wide range of knowledge of simulation systems and the processes those systems are intended to control and model. The Company's knowledge is concentrated heavily in simulation technology and model development. The Company is primarily engaged in simulation for the power generation industry and the process industries. Contracts typically range from 12 months to three years.

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements as well as reported amounts of revenues and expenses during the reporting period. The Company's most significant estimates relate to revenue recognition, capitalization of software development costs, and the recoverability of deferred tax assets. Actual results could differ from these estimates and those differences could be material.

*Revenue Recognition*

The majority of the Company's revenue is derived through the sale of uniquely designed systems containing hardware, software and other materials under fixed-price contracts. Revenue under these fixed-price contracts is accounted for on the percentage-of-completion method. This methodology recognizes revenue and earnings as work progresses on the contract and is based on an estimate of the revenue and earnings earned to date, less amounts recognized in prior periods. The Company bases its estimate of the degree of completion of the contract by reviewing the relationship of costs incurred to date to the expected total costs that will be incurred on the project. Estimated contract earnings are reviewed and revised periodically as the work progresses, and the cumulative effect of any change in estimate is recognized in the period in which the change is identified. Estimated losses are charged against earnings in the period such losses are identified. The Company recognizes revenue arising from contract claims either as income or as an offset against a potential loss only when the amount of the claim can be estimated reliably and realization is probable and there is a legal basis of the claim. There were no claims outstanding as of September 30, 2009.

Uncertainties inherent in the performance of contracts include labor availability and productivity, material costs, change order scope and pricing, software modification and customer acceptance issues. The reliability of these cost estimates is critical to the Company's revenue recognition as a significant change in the estimates can cause the Company's revenue and related margins to change significantly from the amounts estimated in the early stages of the project.

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As the Company recognizes revenue under the percentage-of-completion method, it provides an accrual for estimated future warranty costs based on historical and projected claims experience. The Company's long-term contracts generally provide for a one-year warranty on parts, labor and any bug fixes as it relates to software embedded in the systems.

The Company's system design contracts do not normally provide for "post customer support service" (PCS) in terms of software upgrades, software enhancements or telephone support. In order to obtain PCS, the customers must normally purchase a separate contract. Such PCS arrangements are generally for a one-year period renewable annually and include customer support, unspecified software upgrades, and maintenance releases. The Company recognizes revenue from these contracts ratably over the life of the agreements.

Revenue from the sale of software licenses which do not require significant modifications or customization for the Company's modeling tools are recognized when the license agreement is signed, the license fee is fixed and determinable, delivery has occurred, and collection is considered probable.

Revenue for contracts with multiple elements is separated and allocated when certain criteria have been met.

Revenue from certain consulting or training contracts is recognized on a time-and-material basis. For time-and-material type contracts, revenue is recognized based on hours incurred at a contracted labor rate plus expenses.

The following customers have provided more than 10% of the Company's consolidated revenue for the indicated periods:

	Three months ended		Nine months ended	
	September 30,		September 30,	
	2009	2008	2009	2008
Slovenské Elektrárne, AS	18.9%	0.0%	12.8%	0.0%
Titan-2 Concern	12.6%	0.0%	10.4%	0.0%
Emerson Process Management	11.8%	12.8%	12.1%	16.8%
Westinghouse Electric Company LLC	8.8%	10.6%	6.6%	7.7%
American Electric Power	7.2%	13.1%	7.2%	4.8%

Contract receivables unbilled totaled \$8.8 million and \$3.6 million as of September 30, 2009 and December 31, 2008, respectively. In October 2009, the Company invoiced \$2.2 million of the unbilled amounts; the balance of the unbilled amounts is expected to be invoiced and collected within one year.

## **2. Recently Issued Accounting Pronouncements**

In June 2009, the Financial Accounting Standards Board ("FASB") issued *Accounting Standards Codification* ("ASC" or "the Codification") as the source of authoritative generally accepted accounting principles recognized by the FASB for non-governmental entities. The Codification is effective for financial statements issued for reporting periods that end after September 15, 2009, which for GSE would be September 30, 2009. The Codification superseded all then-existing non-SEC accounting and reporting standards. The Codification did not change rules and interpretations of the SEC which are also sources of authoritative GAAP for SEC registrants. There were no changes to the Company's consolidated financial statements upon adoption.

In October 2009, the FASB issued Accounting Standards Update ("ASU") 2009-13, *Revenue Recognition (Topic 605), Multiple-Deliverable Arrangements*. ASU 2009-13 amends the guidance that in the absence of

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vendor-specific objective and third-party evidence for deliverables in multiple-deliverable arrangements, companies will be required to develop a best estimate of the selling price to separate deliverables and allocate arrangements consideration using the relative selling price method. ASU 2009-13 expands the disclosure requirements for multiple-deliverable revenue arrangements. The guidance will be effective for financial statements issued for fiscal years beginning after June 15, 2010. Early adoption is permitted. The Company is currently evaluating the potential impact on its financial statements.

In October 2009, the FASB issued ASU 2009-14, *Software (Topic 985), Certain Revenue Arrangements that Include Software Elements*. ASU 2009-14 amends the guidance to exclude for the scope of software revenue accounting requirements tangible products if the product contains both software and non-software components that function together to deliver a product's essential functionality and factors to consider in determining whether a product is within the scope of the guidance. The guidance will be effective for financial statements issued for fiscal years beginning after June 15, 2010. Early adoption is permitted. The Company is currently evaluating the potential impact on its financial statements.

**3. Basic and Diluted Income (Loss) Per Common Share**

Basic income (loss) per share is based on the weighted average number of outstanding common shares for the period. Diluted income (loss) per share adjusts the weighted average shares outstanding for the potential dilution that could occur if stock options or warrants were exercised into common stock. The number of common shares and common share equivalents used in the determination of basic and diluted income (loss) per share were as follows:

*(in thousands, except for share amounts)*

	Three months ended September 30,		Nine months ended September 30,	
	2009	2008	2009	2008
Numerator:				
Net income (loss)	\$ 458	\$ (58)	\$ 1,362	\$ (621)
Denominator:				
Weighted-average shares outstanding for basic earnings per share	16,813,379	15,920,908	16,268,210	15,683,442
Effect of dilutive securities:				
Employee stock options, warrants, and options outside the plan	680,812	-	659,800	-
Adjusted weighted-average shares outstanding and assumed conversions for diluted earnings per share	17,494,191	15,920,908	16,928,010	15,683,442
Shares related to dilutive securities excluded because inclusion would be anti-dilutive	1,031,333	938,938	1,006,787	1,133,184

Conversion of outstanding stock options and warrants was not assumed for either the three or nine months ended September 30, 2008 because the impact was anti-dilutive. Included in the 938,938 shares and 1,133,184 shares

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related to dilutive securities excluded from the diluted earnings per share calculation for the three and nine months ended September 30, 2008, respectively, were in-the-money options and warrants totaling 792,308 shares and 997,253 shares, respectively.

#### **4. Software Development Costs**

Certain computer software development costs are capitalized in the accompanying consolidated balance sheets. Capitalization of computer software development costs begins upon the establishment of technological feasibility. Capitalization ceases and amortization of capitalized costs begins when the software product is commercially available for general release to customers. Amortization of capitalized computer software development costs is included in cost of revenue and is determined using the straight-line method over the remaining estimated economic life of the product, not to exceed five years.

Software development costs capitalized were \$333,000 and \$476,000 for the three and nine months ended September 30, 2009, respectively, and \$137,000 and \$530,000 for the three and nine months ended September 30, 2008, respectively. Total amortization expense was \$131,000 and \$354,000 for the three and nine months ended September 30, 2009, respectively, and \$62,000 and \$195,000 for the three and nine months ended September 30, 2008, respectively.

#### **5. Investment in Emirates Simulation Academy, LLC**

On November 8, 2005, the Emirates Simulation Academy, LLC (“ESA”), headquartered in Abu Dhabi, United Arab Emirates, was formed to build and operate simulation training academies in the Arab Gulf Region. These simulation training centers will be designed to train and certify indigenous workers for deployment to critical infrastructure facilities including power plants, oil refineries, petro-chemical plants, desalination units and other industrial facilities. The members of the limited liability company include Al Qudra Holding PJSC of the United Arab Emirates (60% ownership), the Centre of Excellence for Applied Research and Training of the United Arab Emirates (30% ownership) and GSE (10% ownership). At September 30, 2009 and December 31, 2008, GSE’s investment in ESA totaled \$252,000 and \$718,000, respectively, and was included on the balance sheet in other assets. The Company accounts for its investment in ESA using the equity method. For the three and nine months ended September 30, 2009, the Company recognized \$153,000 and \$466,000 of equity losses, respectively, on its investment in ESA. For the three and nine months ended September 30, 2008, the Company recognized a \$50,000 and \$138,000 equity loss, respectively. The equity losses were recorded in other expense.

In January 2006, GSE received a \$15.1 million contract from ESA to supply five simulators and an integrated training program. A \$1.8 million change order was received from ESA in late 2007 increasing the total order value to \$16.9 million. For the three and nine months ended September 30, 2008, the Company recognized \$40,000 and \$1.2 million, respectively, of contract revenue on this project using the percentage-of-completion method. The contract warranty period ended on September 30, 2009. In accordance with the equity method, the Company eliminated 10% of the profit from this contract as the training simulators are assets that have been recorded on the books of ESA, and the Company was thus required to eliminate its proportionate share of the profit included in the asset value. The total profit elimination on the project totaled \$723,000 and was classified as an other liability on the balance sheet at December 31, 2008. ESA assigned a four year life to the simulators and began to amortize the training simulators on their books effective January 1, 2009. Accordingly, on January 1, 2009, GSE began to amortize the deferred profit to other income over a four year period, recognizing income of \$45,000 and \$136,000 in the three and nine months ended September 30, 2009, respectively.

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At both September 30, 2009 and December 31, 2008, the Company had trade receivables from ESA totaling \$1.6 million. Although this trade receivable is significantly overdue, the Company has not recorded a reserve against this outstanding receivable at September 30, 2009 as the Company believes that payment will be received in full. However, if the Company should determine that some or all of the receivable will not be paid, GSE may incur a loss of up to \$1.6 million.

Under the terms of the contract, the Company provided a \$2.1 million performance bond to ESA, this performance bond expired on September 30, 2009 and the restricted cash that had collateralized the performance bond was released by Bank of America in early October.

The Company has deposited \$1.2 million into a restricted, interest-bearing account at the Union National Bank (“UNB”) in the United Arab Emirates as a partial guarantee for the \$11.8 million credit facility that UNB has extended to ESA. The guarantee will be in place until the expiration of the ESA credit facility on December 31, 2014 or earlier if ESA pays down and terminates the credit facility. ESA is a start-up entity; if it is unable to generate sufficient cash flow from operations and is unable to repay its credit facility, GSE may incur a loss of up to \$1.2 million if UNB utilizes all or a portion of GSE’s guarantee.

## **6. Fair Value of Financial Instruments**

The Company adopted ASC 820, *Fair Value Measurements and Disclosures* for nonfinancial assets and nonfinancial liabilities measured on a nonrecurring basis in the first quarter of fiscal 2009, and such adoption did not have a material impact on the Company’s financial statement disclosures.

ASC 820 defines fair value as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. ASC 820 also establishes a fair value hierarchy which requires an entity to maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value.

The levels of the fair value hierarchy established by ASC 820 are:

Level 1: inputs are quoted prices, unadjusted, in active markets for identical assets or liabilities that the reporting entity has the ability to access at the measurement date.

Level 2: inputs are other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly. A Level 2 input must be observable for substantially the full term of the asset or liability.

Level 3: inputs are unobservable and reflect the reporting entity’s own assumptions about the assumptions that market participants would use in pricing the asset or liability.

The Company considers the recorded value of certain of its financial assets and liabilities, which consist primarily of cash and cash equivalents, accounts receivable and accounts payable, to approximate the fair value of the respective assets and liabilities at September 30, 2009 and December 31, 2008 based upon the short-term nature of the assets and liabilities.

At December 31, 2008, the Company had a commercial automated investment account under which, at the end of each business day, the funds in the Company’s operating account were swept into a money market fund.

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*(Unaudited)*

The funds were returned to the operating account at the beginning of the next business day. At December 31, 2008, the balance in this fund was \$7.5 million and was included on the balance sheet under cash and cash equivalents. The Company terminated this automated investment account in the second quarter 2009. At September 30, 2009, the Company has no cash equivalents.

As of September 30, 2009, the Company was contingently liable for six standby letters of credit and three bank guarantees totaling approximately \$6.1 million. The standby letters of credit and bank guarantees were issued as performance bonds on nine contracts. The Company has deposited the full value of four of the standby letters of credit in certificates of deposit (\$2.9 million) which have been restricted in that the Company does not have access to these funds until the related letters of credit have expired. The cash has been recorded on the Company's balance sheet at September 30, 2009 as restricted cash and long-term restricted cash depending on the expiration date of the certificate of deposit.

On May 5, 2009, one of the Company's two credit agreements with Bank of America was amended to increase the principal amount of the line from \$1.5 million to \$2.5 million. In addition, the agreement was amended to include a \$600,000 certificate of deposit issued by Bank of America in the borrowing base calculation to determine the maximum amount of available funds that the Company could borrow from the line. The cash deposited in this certificate of deposit has been recorded on the Company's balance sheet at September 30, 2009 as restricted cash.

The following table presents assets and liabilities measured at fair value at September 30, 2009:

<i>(in thousands)</i>	Level 1	Level 2	Level 3	Total
Certificates of Deposit	\$ 3,456	\$ -	\$ -	\$ 3,456
Foreign exchange contracts	-	941	-	941
<b>Total assets</b>	<b>\$ 3,456</b>	<b>\$ 941</b>	<b>\$ -</b>	<b>\$ 4,397</b>
Foreign exchange contracts	\$ -	\$ (134)	\$ -	\$ (134)
<b>Total liabilities</b>	<b>\$ -</b>	<b>\$ (134)</b>	<b>\$ -</b>	<b>\$ (134)</b>

## 7. Derivative Instruments

The Company adopted ASC 815 ("ASC 815"), *Derivatives and Hedging*, on January 1, 2009. ASC 815 enhances the disclosure requirements about an entity's derivative instruments and hedging activities.

The Company utilizes forward foreign currency exchange contracts to manage market risks associated with the fluctuations in foreign currency exchange rates. It is the Company's policy to use such derivative financial instruments to protect against market risk arising in the normal course of business in order to reduce the impact of these exposures. The Company minimizes credit exposure by limiting counterparties to nationally recognized financial institutions.

As of September 30, 2009, the Company had foreign exchange contracts for sale of approximately 2.0 million Pounds Sterling, 3.1 million Euro, and 870 million Japanese Yen at fixed rates. The contracts expire on

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various dates through February 2014. At December 31, 2008, the Company had contracts for the sale of approximately 2 million Pounds Sterling, 4 million Euro and 68 million Japanese Yen at fixed rates. The Company had not designated the foreign exchange contracts as hedges and had recorded the estimated fair value of the contracts in the consolidated balance sheet as follows:

<i>(in thousands)</i>	September 30, 2009	December 31, 2008
Asset derivatives		
Prepaid expenses and other current assets	\$ 541	\$ 14
Other assets	400	537
	941	551
Liability derivatives		
Other current liabilities	(52)	(426)
Other liabilities	(82)	(183)
	(134)	(609)
Net fair value	\$ 807	\$ (58)

The changes in the fair value of the foreign exchange contracts are included in gain (loss) on derivative instruments in the consolidated statements of operations.

The foreign currency denominated trade receivables, unbilled receivables and billings in excess of revenue earned that are related to the outstanding foreign exchange contracts are remeasured at the end of each period into the functional currency using the current exchange rate at the end of the period. The gain or loss resulting from such remeasurement is also included in gain (loss) on derivative instruments in the consolidated statements of operations.

For the three and nine months ended September 30, 2009 and 2008, the Company recognized a net gain (loss) on its derivative instruments as outlined below:

<i>(in thousands)</i>	Three months ended September 30,		Nine months ended September 30,	
	2009	2008	2009	2008
Foreign exchange contracts- change in fair value	\$ 705	\$ (190)	\$ 806	\$ (185)
Remeasurement of related contract receivables and billings in excess of revenue earned	(182)	20	(76)	20
Net gain (loss) on derivatives	\$ 523	\$ (170)	\$ 730	\$ (165)

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**8. Stock-Based Compensation**

The Company recognizes compensation expense for all equity-based compensation awards issued to employees, directors and non-employees that are expected to vest. Compensation cost is based on the fair value of awards as of the grant date. The Company recognized \$228,000 and \$142,000 of pre-tax stock-based compensation expense for the three months ended September 30, 2009 and 2008, respectively, under the fair value method and recognized \$769,000 and \$426,000 of pre-tax stock-based compensation expense for the nine months ended September 30, 2009 and 2008, respectively. In the nine months ended September 30, 2009, the Company granted a total of 55,000 stock options to three employees and granted a total of 60,000 stock options to its six non-employee directors. A total of 58,350 employee stock options and 10,000 warrants were exercised in the nine months ended September 30, 2009.

**9. Long-term Debt**

*Line of Credit*

On March 28, 2008, the Company entered into two separate revolving line of credit agreements for two-year revolving lines of credit with Bank of America, N.A. (“BOA”). The Company and its subsidiary, GSE Power Systems, Inc., are jointly and severally liable as co-borrowers. The credit facilities enable the Company to borrow funds to support working capital needs and standby letters of credit. The first line of credit in the principal amount of up to \$3.5 million enables the Company to borrow funds up to 90% of eligible foreign accounts receivable, plus 75% of eligible unbilled foreign receivables and 100% of cash collateral pledged to BOA on outstanding warranty standby letters of credit. This line of credit is 90% guaranteed by the Export-Import Bank of the United States. The interest rate on this line of credit is based on the daily LIBOR rate plus 150 basis points, with interest only payments due monthly. The second line of credit was originally in the principal amount of up to \$1.5 million, however, on May 5, 2009, the credit agreement was amended to increase the principal amount to \$2.5 million. This line of credit enables the Company to borrow funds up to 80% of domestic accounts receivable, 30% of domestic unbilled receivables and 100% of the principal balance of a \$600,000 certificate of deposit issued by BOA. The interest rate on this line of credit is based on the daily LIBOR rate plus 225 basis points, with interest only payments due monthly. Both credit agreements contain financial covenants with respect to the Company’s minimum tangible net worth, debt service coverage ratio, and funded debt to EBITDA ratio. At September 30, 2009, the Company was in compliance will all of these financial covenants as shown below:

	Covenant	As of Sept. 30, 2009
Tangible net worth	Must Exceed \$15.0 million	\$36.0 million
Debt service coverage ratio	Must Exceed 1.25 : 1.00	2,515 : 1.00
Funded debt to EBITDA ratio	Not to Exceed 2.50 : 1.00	.91 : 1.00

In addition, the credit agreements contain certain restrictive covenants regarding future acquisitions, incurrence of debt and the payment of dividends. At September 30, 2009, the Company’s available borrowing base under the two lines of credit was \$5.5 million of which \$520,000 had been utilized as collateral for two standby letters of credit.

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**10. Product Warranty**

As the Company recognizes revenue under the percentage-of-completion method, it provides an accrual for estimated future warranty costs based on historical experience and projected claims. The activity in the warranty account is as follows:

*(in thousands)*

Balance at December 31, 2008	\$ 1,066
Warranty provision	372
Warranty claims	(295)
Currency adjustment	<u>12</u>
Balance at September 30, 2009	<u>\$ 1,155</u>

**11. Letters of Credit and Performance Bonds**

As of September 30, 2009, the Company was contingently liable for six standby letters of credit and three bank guarantees totaling approximately \$6.1 million. The standby letters of credit and bank guarantees were issued as performance bonds on nine contracts, including the \$2.1 million performance bond issued to ESA. Four of the standby letters of credit and two of the bank guarantees have been cash collateralized; two standby letters of credit were collateralized by the Company's line of credit. The ESA performance bond expired on September 30, 2009 and the restricted cash that had collateralized the performance bond was released by Bank of America in early October.

**12. Income Taxes**

The Company files in the United States federal jurisdiction and in several state and foreign jurisdictions. Because of the net operating loss carryforwards, the Company is subject to U.S. federal and state income tax examinations from years 1997 forward and is subject to foreign tax examinations by tax authorities for years 2003 and forward. Open tax years related to state and foreign jurisdictions remain subject to examination but are not considered material to our financial position, results of operations or cash flows.

As of September 30, 2009, there have been no material changes to the liability for uncertain tax positions. Furthermore, the Company is not aware of any tax positions for which it is reasonably possible that the total amounts of unrecognized tax benefits would significantly decrease or increase within the next twelve months.

The Company expects to pay U.S. federal alternative minimum income taxes in 2009 and to pay income taxes in Sweden and China. In addition, the Company will pay foreign income tax withholding on several non-U.S. contracts. The Company has a full valuation allowance on its U.S. deferred tax assets at September 30, 2009.

**13. Common Stock**

On September 4, 2009, the Company raised \$15.0 million through the sale of 2.5 million shares of its common stock, \$.01 par value per share. The shares were sold under a shelf registration statement which was declared effective by the Securities and Exchange Commission on August 21, 2009. On September 23, 2009, the Company raised an additional \$2,250,000 when the Company's underwriter, exercised an over-allotment option in full to purchase an additional 375,000 shares of the Company's common stock at the public offering price of \$6.00

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per share. The aggregate net proceeds received by the Company from the two transactions was approximately \$15.9 million. The Company paid the underwriter a fee in the amount of 6% of the gross proceeds received by the Company from the offering (\$1,035,000) and paid \$323,000 in other transaction fees.

#### **14. Subsequent Events**

In May 2009, the FASB issued ASC 855, *Subsequent Events* (“ASC 855”), setting forth principles and requirements to be applied to the accounting for and disclosure of subsequent events. The statement sets forth the period after the balance sheet date during which management shall evaluate events or transactions that may occur for potential recognition or disclosure in the financial statements, the circumstances under which events or transactions occurring after the balance sheet date shall be recognized in the financial statements and the required disclosures about events or transactions that occurred after the balance sheet date. ASC 855 became effective for interim or annual reporting periods ending after June 15, 2009. The Company has evaluated the period subsequent to September 30, 2009 and through November 9, 2009 (the date the financial statements were available to be issued) for events that did not exist at the balance sheet date but arose after that date.

#### **Item 2. Management’s Discussion and Analysis of Results of Operations and Financial Condition**

GSE Systems, Inc. (“GSE Systems”, “GSE” or the “Company”) is a world leader in real-time high fidelity simulation. The Company provides simulation and educational solutions and services to the nuclear and fossil electric utility industry, and the chemical and petrochemical industries. In addition, the Company provides plant monitoring and signal analysis monitoring and optimization software primarily to the power industry. GSE is the parent company of GSE Power Systems, Inc., a Delaware corporation; GSE Power Systems, AB, a Swedish corporation; GSE Engineering Systems (Beijing) Co. Ltd, a Chinese limited liability company; GSE Systems, Ltd, a UK limited liability company; and has a 10% minority interest in Emirates Simulation Academy, LLC, a United Arab Emirates limited liability company. The Company has only one reportable segment.

#### **Cautionary Statement Regarding Forward-Looking Statements**

This report contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. The Private Securities Litigation Reform Act of 1995 provides a “safe harbor” for forward looking statements. Forward-looking statements are not statements of historical facts, but rather reflect our current expectations concerning future events and results. We use words such as “expects”, “intends”, “believes”, “may”, “will” and “anticipates” to indicate forward-looking statements. Because these forward-looking statements involve risks and uncertainties, there are important factors that could cause actual results to differ materially from those expressed or implied by these forward-looking statements, including, but not limited to, those factors set forth under Item 1A - Risk Factors of the Company’s 2008 Annual Report on Form 10-K and those other risks and uncertainties detailed in the Company’s periodic reports and registration statements filed with the Securities and Exchange Commission. We caution that these risk factors may not be exhaustive. We operate in a continually changing business environment, and new risk factors emerge from time to time. We cannot predict these new risk factors, nor can we assess the effect, if any, of the new risk factors on our business or the extent to which any factor or combination of factors may cause actual results to differ from those expressed or implied by these forward-looking statements.

If any one or more of these expectations and assumptions proves incorrect, actual results will likely differ materially from those contemplated by the forward-looking statements. Even if all of the foregoing assumptions

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and expectations prove correct, actual results may still differ materially from those expressed in the forward-looking statements as a result of factors we may not anticipate or that may be beyond our control. While we cannot assess the future impact that any of these differences could have on our business, financial condition, results of operations and cash flows or the market price of shares of our common stock, the differences could be significant. We do not undertake to update any forward-looking statements made by us, whether as a result of new information, future events or otherwise. You are cautioned not to unduly rely on such forward-looking statements when evaluating the information presented in this report.

### **General Business Environment**

On September 4, 2009, the Company raised \$15.0 million through the sale of 2.5 million shares of its common stock, \$.01 par value per share. The shares were sold under a shelf registration statement which was declared effective by the Securities and Exchange Commission on August 21, 2009. On September 23, 2009, the Company raised an additional \$2,250,000 when the Company's underwriter exercised an over-allotment option in full to purchase an additional 375,000 shares of the Company's common stock at the public offering price of \$6.00 per share. The aggregate net proceeds received by the Company from the two transactions was approximately \$15.9 million. The Company paid the underwriter a fee in the amount of 6% of the gross proceeds received by the Company from the offering (\$1,035,000) and paid \$323,000 in other transaction fees. The Company intends to use the net proceeds for general working capital purposes and to fund acquisitions and other strategic opportunities.

The nuclear power industry has been largely dormant for the last thirty years with few opportunities to provide new full scope simulators. The Company's nuclear simulation business has concentrated mainly on providing services to the installed base of nuclear simulators worldwide. These services are primarily related to upgrading antiquated simulation software and hardware systems, providing new and improved plant and system simulation models, and modifying the simulator to reflect changes in the physical plant. However, over the last several years, the nuclear power industry has experienced a dramatic change, and most energy experts believe the industry is on the verge of a "renaissance", driven by the gap between the energy that the world is projected to need versus the current capacity, the rising cost of oil, and growing environmental concerns caused by fossil fuels. Government and industry sources and trade journals report that up to 250 new nuclear plants will be built over the next 20 years. In the U.S. alone, applications for accelerated construction and operating licenses have been or are expected to be submitted for 34 new nuclear plants. Each new plant will be required to have a full scope simulator ready for operator training and certification about two years prior to plant operation. In some cases where identical plants share a common site, one simulator will serve both plants. Similar nuclear plant construction programs are underway or planned in China, Russia, Ukraine, Japan and Central Europe to meet growing energy demands. In addition, most U.S. nuclear electric utilities have applied for license extensions and/or power upgrades. These license extensions will lead to significant upgrades to the physical equipment and control room technology which will result in the need to modify or replace the existing plant control room simulators. The Company, having what it believes is the largest installed base of existing simulators, over 60% on a global basis, is well positioned to capture a large portion of this business, although no assurance can be given that it will be successful in doing so.

In the first quarter 2009, the Company was awarded a contract valued at over \$18 million to build a new nuclear power plant simulator for a two unit reactor plant in Slovakia. The contract includes approximately \$12 million of hardware that the customer has requested be a part of the contract in addition to approximately \$6 million related specifically to the simulator. Margins on the hardware portion of the contract are minimal, while margins on the more traditional simulation portions will be consistent with those in the past. The utility customer in Slovakia is constructing two new Russian designed VVER-440 nuclear reactors at the site that will incorporate Siemens / Areva control systems. Work on this contract commenced in the first quarter 2009 and is scheduled for completion in approximately 30 months. GSE, in partnership with Siemens, built the first full scope simulator at

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the same site in 1997. Including this contract, the Company logged approximately \$43.0 million in nuclear simulation orders in the nine months ended September 30, 2009.

In July 2009, the Company announced the award of a multi-million dollar contract from Westinghouse Electric Company (“Westinghouse”) to build an AP1000™ nuclear power plant simulator based upon Westinghouse’s design for domestic customers. This award covers an initial phase of work that will focus on building high fidelity simulation models for the AP1000 nuclear systems. These models will help Westinghouse demonstrate the plant design and control room human factors. The models that will be built in this current phase will be largely common to all future U.S.-based AP1000 plants and hence highly reusable from plant to plant. GSE anticipates future awards that will address the remaining plant systems. These future systems are expected to be different from plant to plant, and, therefore, the Company expects these contracts to be issued on a plant specific basis in the future. The Westinghouse AP1000 is the technology of choice for no less than 14 announced U.S. nuclear power plants, including six for which Engineering, Procurement and Construction contracts have been signed with Westinghouse. Providing a plant simulator at each site is included within the scope of work between Westinghouse and these U.S. customers.

The Company’s fossil fueled power simulation business has grown rapidly over the past three years. The transition from obsolete analog control systems to modern digital control systems and the new requirements for complex emission control systems are contributing to the growth the Company is experiencing in this business, coupled with the fact that GSE’s high-fidelity simulation models can be used to validate control schemes and logics for new designs before the control systems are deployed to the field. GSE builds the plant models based upon design specifications supplied by its customers, and the models then drive the actual digital control systems in the factory. This testing can uncover numerous control system discrepancies. By correcting these problems at the factory versus in the field, GSE’s customers can save millions in reduced down time and reduced commissioning time.

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**Results of Operations**

The following table sets forth the results of operations for the periods presented expressed in thousands of dollars and as a percentage of revenue:

<i>(in thousands)</i>	<b>Three months ended September 30,</b>				<b>Nine months ended September 30,</b>			
	<b>2009</b>	<b>%</b>	<b>2008</b>	<b>%</b>	<b>2009</b>	<b>%</b>	<b>2008</b>	<b>%</b>
Contract revenue	\$ 10,217	100.0 %	\$ 7,001	100.0 %	\$ 28,995	100.0 %	\$ 20,639	100.0 %
Cost of revenue	7,662	75.0 %	5,023	71.8 %	21,398	73.8 %	14,889	72.1 %
Gross profit	2,555	25.0 %	1,978	28.2 %	7,597	26.2 %	5,750	27.9 %
Operating expenses:								
Selling, general and administrative	2,000	19.6 %	1,694	24.2 %	5,611	19.3 %	5,585	27.1 %
Depreciation	127	1.2 %	114	1.6 %	369	1.3 %	317	1.5 %
Total operating expenses	2,127	20.8 %	1,808	25.8 %	5,980	20.6 %	5,902	28.6 %
Operating income (loss)	428	4.2 %	170	2.4 %	1,617	5.6 %	(152)	(0.7)%
Interest income, net	16	0.1 %	42	0.6 %	50	0.2 %	76	0.3 %
Gain (loss) on derivative instruments	523	5.1 %	(170)	(2.4)%	730	2.5 %	(165)	(0.8)%
Other expense, net	(97)	(0.9)%	(43)	(0.6)%	(318)	(1.1)%	(172)	(0.8)%
Income (loss) before income taxes	870	8.5 %	(1)	(0.0)%	2,079	7.2 %	(413)	(2.0)%
Provision for income taxes	412	4.0 %	57	0.8 %	717	2.6 %	208	1.0 %
Net income (loss)	<u>\$ 458</u>	<u>4.5 %</u>	<u>\$ (58)</u>	<u>(0.8)%</u>	<u>\$ 1,362</u>	<u>4.7 %</u>	<u>\$ (621)</u>	<u>(3.0)%</u>

**Critical Accounting Policies and Estimates**

The preparation of financial statements in accordance with U.S. generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Our estimates, judgments and assumptions are continually evaluated based on available information and experience. Because of the use of estimates inherent in the financial reporting process, actual results could differ from those estimates.

A summary of the Company's significant accounting policies as of December 31, 2008 is included in Note 2 to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2008. Certain of our accounting policies require higher degrees of judgment than others in their application. These include revenue recognition on long-term contracts, capitalization of computer software development costs, and deferred income tax valuation allowances. These critical accounting policies and estimates are discussed in the Management's Discussion and Analysis of Financial Condition and Results of Operations section in the 2008 Annual Report on Form 10-K for the fiscal year ended December 31, 2008.

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**Results of Operations - Three and Nine Months ended September 30, 2009 versus Three and Nine Months ended September 30, 2008**

*Contract Revenue.* Total contract revenue for the quarter ended September 30, 2009 totaled \$10.2 million, which was 45.9% higher than the \$7.0 million total revenue for the quarter ended September 30, 2008. For the nine months ended September 30, 2009, contract revenue totaled \$29.0 million, a 40.5% increase from the \$20.6 million for the nine months ended September 30, 2008. The Company recorded total orders of \$47.3 million in the nine months ended September 30, 2009 versus \$31.2 million in the nine months ended September 30, 2008. Included in the 2009 orders was an \$18.4 million contract to build a new nuclear power plant simulator for a two unit reactor plant in Slovakia. The contract includes approximately \$12 million for hardware, the largest portion being a digital control system from Siemens, that the customer has requested be a part of the contract in addition to approximately \$6 million related specifically to the simulator. Due to the significant hardware portion of the project, the overall margin on the project is lower than the Company's normal gross margin. In the three and nine months ended September 30, 2009, the Company recognized \$1.9 million and \$3.7 million, respectively, of contract revenue on this project using the percentage-of-completion method, which accounted for 18.9% and 12.8%, respectively, of the Company's consolidated revenue. At September 30, 2009, the Company's backlog was \$58.6 million, of which \$14.7 million related to this contract.

*Gross Profit.* Gross profit totaled \$2.6 million for the quarter ended September 30, 2009 versus \$2.0 million for the same quarter in 2008. As a percentage of revenue, gross profit decreased from 28.2% for the three months ended September 30, 2008 to 25.0% for the three months ended September 30, 2009. For the nine months ended September 30, 2009, gross profit increased \$1.8 million from the same period in 2008 to \$7.6 million, however, as a percentage of revenue, gross profit decreased from 27.9% to 26.2%. The decrease in gross profit percentage mainly reflects the impact of the lower margin on the \$18.4 million full scope simulator and digital control system order received in the first quarter 2009 from a Slovak utility.

*Selling, General and Administrative Expenses.* Selling, general and administrative ("SG&A") expenses totaled \$2.0 million in the quarter ended September 30, 2009, an 18.1% increase from the \$1.7 million for the same period in 2008. For both the nine months ended September 30, 2009 and 2008, SG&A expenses totaled \$5.6 million. The spending variances reflect the following:

- ◆ Business development and marketing costs increased from \$675,000 in the third quarter 2008 to \$801,000 in the third quarter of 2009 but remained constant at \$2.3 million for both the nine months ended September 30, 2009 and 2008. The increase in the third quarter 2009 spending mainly reflects an increase in bidding and proposal costs, which are the costs of operations personnel in assisting with the preparation of contract proposals.
- ◆ The Company's general and administrative expenses increased from \$920,000 in the third quarter 2008 to \$1.0 million in the third quarter 2009, but totaled \$3.1 million in both the nine months ending September 30, 2009 and 2008. The increase in the third quarter 2009 spending mainly reflects an increase in salary expense due to the addition of in-house legal counsel in early 2009 and a full time recruiter in late 2008. This increase in salary expense was largely offset in the nine months ended September 30, 2009 by foreign currency gains on intercompany receivable balances.
- ◆ Gross spending on software product development ("development") totaled \$484,000 in the quarter ended September 30, 2009 as compared to \$236,000 in the same period of 2008. For the three months ended September 30, 2009, the Company expensed \$151,000 and capitalized \$333,000 of its development spending while in the three months ended September 30, 2008, the Company expensed \$99,000 and capitalized \$137,000 of its development spending. For the nine months ended September 30, 2009, gross development spending totaled \$724,000 versus \$773,000 in the same

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period of 2008. The Company expensed \$248,000 and capitalized \$476,000 of its development spending in the nine months ended September 30, 2009 and expensed \$243,000 and capitalized \$530,000 of its development spending in the same period of 2008. The Company's capitalized development expenditures in 2009 were mainly related to the customization of RELAP5-RT software (which simulates transient fluid dynamics, neutronics and heat transfer in nuclear power plants) to run on the Company's real-time executive software; the replacement of the current Graphic User Interface of SimSuite Pro with JADE Designer; the development of generic simulation models for three oil and gas refining processes- continuous catalytic reformer, hydrotreater, and amine treatment; and a generic combined cycle gas turbine simulator. The Company anticipates that its total gross development spending in 2009 will approximate \$1.2 million.

*Depreciation.* Depreciation expense totaled \$127,000 and \$114,000 during the quarters ended September 30, 2009 and 2008, respectively. For the nine months ended September 30, 2009 and 2008, depreciation expense totaled \$369,000 and \$317,000, respectively. The higher 2009 depreciation expense is a result of the Company's 2008 capital purchases related to the Company's move to its Sykesville, Maryland headquarters in 2008 and the purchase of new computers for new hires.

*Operating Income.* The Company had operating income of \$428,000 (4.2% of revenue) in the third quarter 2009, as compared with operating income of \$170,000 (2.4% of revenue) for the same period in 2008. For the nine months ended September 30, 2009 and 2008, the Company had operating income of \$1.6 million (5.6% of revenue) and an operating loss of \$152,000 (0.7% of revenue), respectively. The variances were due to the factors outlined above.

*Interest Income, Net.* Net interest income totaled \$16,000 in the quarter ended September 30, 2009 versus net interest income of \$42,000 in the quarter ended September 30, 2008. For the nine months ended September 30, 2009 and 2008, net interest income totaled \$50,000 and \$76,000, respectively.

On March 28, 2008 the Company entered into two separate revolving line of credit agreements for two-year revolving lines of credit with Bank of America ("BOA"), replacing the Company's credit facility with Laurus Master Fund. One line of credit is in the principal amount of up to \$3.5 million and is guaranteed by the U.S. Export-Import Bank. The second line of credit was originally in the principal amount of up to \$1.5 million, however, on May 5, 2009, the credit agreement was amended to increase the principal amount to \$2.5 million. The Company has not borrowed any funds against either BOA line of credit.

The deferred financing costs incurred in conjunction with the Laurus Master Fund line of credit were amortized over the two-year period of the line of credit, with the final amortization expense recorded in February 2008. Amortization expense totaled \$89,000 in the nine months ended September 30, 2008. The deferred financing costs incurred in conjunction with the BOA lines of credit are being amortized over the two-year period of the lines of credit. Amortization began in April 2008 and totaled \$10,000 and \$37,000 for the three and nine months ended September 30, 2009, respectively, and \$18,000 and \$35,000 in the three and nine months ended September 30, 2008, respectively.

At September 30, 2009 and 2008, the Company had approximately \$2.9 million and \$3.0 million, respectively, of cash in Certificates of Deposit with BOA that were being used as collateral for various performance bonds. The Company recorded interest income of \$22,000 and \$50,000 from the Certificates of Deposit in the three and nine months ended September 30, 2009, respectively, versus \$33,000 and \$97,000 of interest income in the three and nine months ended September 30, 2008, respectively. The reduction in interest income reflects lower interest rates on the Certificates of Deposit in 2009.

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In May 2007, the Company deposited \$1.2 million into a restricted, interest-bearing account at the Union National Bank in the United Arab Emirates as a partial guarantee for the \$11.8 million credit facility that UNB has extended to ESA. The Company recorded interest income of \$2,000 and \$22,000 in the three and nine months ended September 30, 2009 respectively. For the three and nine months ended September 30, 2008, the Company recorded interest income of \$10,000 and \$39,000, respectively. The reduction in interest income reflects lower interest rates in 2009.

Interest income earned on short-term investments of the Company's operating cash totaled \$0 for the three months ended September 30, 2009 versus \$12,000 for the three months ended September 30, 2008 and totaled \$4,000 for the nine months ended September 30, 2009 versus \$52,000 for the nine months ended September 30, 2008. The lower interest income in 2009 is due to the termination of the Company's commercial automated investment account with BOA in the second quarter 2009.

Other interest income totaled \$2,000 and \$11,000 for the three and nine months ended September 30, 2009 versus \$5,000 and \$12,000 for the three and nine months ended September 30, 2008.

*Gain (Loss) on Derivative Instruments.* The Company periodically enters into forward foreign exchange contracts to manage market risks associated with the fluctuations in foreign currency exchange rates on foreign-denominated trade receivables. As of September 30, 2009, the Company had foreign exchange contracts for sale of approximately 2.0 million Pounds Sterling, 3.1 million Euro and 870 million Japanese Yen at fixed rates. The contracts expire on various dates through February 2014. The Company had not designated the contracts as hedges and has recognized a gain on the change in the estimated fair value of the contracts of \$705,000 for the three months ended September 30, 2009 and a gain of \$806,000 for the nine months ended September 30, 2009.

The foreign currency denominated trade receivables and unbilled receivables that are related to the outstanding foreign exchange contracts were remeasured into the functional currency using the current exchange rate at the end of the period. For the three and nine months ended September 30, 2009, the Company recognized a \$182,000 and \$76,000 loss, respectively, from the remeasurement of such contract receivables and billings in excess of revenue earned.

At September 30, 2008, the Company had contracts for the sale of approximately 2.4 million Euro, 2.5 million Pounds Sterling and 135 million Japanese Yen at fixed rates. The contracts expire on various dates through September 2013. The Company had not designated the contracts as hedges and recognized a loss of \$190,000 and \$185,000 in the change in the estimated fair value of the contracts during the three and nine months ended September 30, 2008, respectively. For the three and nine months ended September 30, 2008, the Company recognized a \$20,000 gain from the remeasurement of the related contract receivables and billings in excess of revenue earned.

*Other Expense, Net.* For the three and nine months ended September 30, 2009, other expense, net was \$97,000 and \$318,000, respectively. For the three and nine months ended September 30, 2008, other expense, net was \$43,000 and \$172,000, respectively. The major components of other expense, net included the following items:

- ◆ The Company accounts for its investment in the Emirates Simulation Academy using the equity method. In accordance with the equity method, the Company eliminated 10% of the profit from this contract as the training simulators are assets that have been recorded on the books of ESA, and the Company was thus required to eliminate its proportionate share of the profit included in the asset value. The profit elimination totaled \$0 and \$38,000 for the three and nine months ended September 30, 2008. ESA began to amortize the training simulators effective January 1, 2009 over a four year

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life; accordingly, GSE began to amortize the deferred profit in January 2009 and recognized income of \$45,000 and \$136,000 for the three and nine months ended September 30, 2009, respectively.

- ◆ For the three and nine months ended September 30, 2009, the Company recognized \$153,000 and \$466,000 of equity losses, respectively, on its investment in ESA. For the three and nine months ended September 30, 2008, the Company's recognized a \$50,000 and \$138,000 equity loss, respectively.
- ◆ Other income totaled \$11,000 and \$12,000 for the three and nine months ended September 30, 2009 and \$7,000 and \$4,000 for the three and nine months ended September 30, 2008.

*Provision for Income Taxes.* The Company files in the United States federal jurisdiction and in several state and foreign jurisdictions. Because of the net operating loss carryforwards, the Company is subject to U.S. federal and state income tax examinations from years 1997 and forward and is subject to foreign tax examinations by tax authorities for years 2001 and forward. Open tax years related to state and foreign jurisdictions remain subject to examination but are not considered material to our financial position, results of operations or cash flows.

As of September 30, 2009, there have been no material changes to the liability for uncertain tax positions. Furthermore, the Company is not aware of any tax positions for which it is reasonably possible that the total amounts of unrecognized tax benefits would significantly decrease or increase within the next twelve months.

The Company expects to pay U.S. federal alternative minimum income taxes in 2009 and to pay income taxes in Sweden and China. In addition, the Company will pay foreign income tax withholding on several non-U.S. contracts. The Company has a full valuation allowance on its U.S. deferred tax assets at September 30, 2009.

### **Liquidity and Capital Resources**

As of September 30, 2009, the Company's cash and cash equivalents totaled \$21.7 million compared to \$8.3 million at December 31, 2008.

*Cash provided by (used in) operating activities.* For the nine months ended September 30, 2009, net cash used in operations totaled \$657,000. Significant changes in the Company's assets and liabilities in the nine months ended September 30, 2009 included:

- ◆ A \$5.0 million increase in the Company's contract receivables. The Company's unbilled receivables increased by \$5.2 million to \$8.8 million at September 30, 2009. The increase in the unbilled receivables is due to the timing of contracted billing milestones of the Company's current projects. In October 2009, the Company invoiced \$2.2 million of the unbilled amounts; the balance of the unbilled amounts is expected to be invoiced and collected within one year. At September 30, 2009, trade receivables outstanding for more than 90 days totaled \$1.9 million versus \$2.3 million at December 31, 2008. Included in the over 90 day balance at both September 30, 2009 and December 31, 2008 was \$1.6 million due from ESA. Although this trade receivable is significantly overdue, the Company believes the entire overdue balance will be received and has not increased its bad debt reserve. However, if the Company should determine that some or all of the receivable will not be paid, GSE may incur a loss of up to \$1.6 million.

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- ◆ A \$2.1 million increase in accounts payable, accrued compensation and accrued expenses. The Company's accounts payable and accrued liabilities have increased due to material purchases and the utilization of subcontractors on several of the Company's current projects.
- ◆ A \$1.1 million reduction in billings in excess of revenue earned. The reduction is due to the timing of contracted billing milestones of the Company's current projects.

Net cash provided by operating activities for the nine months ended September 30, 2008 totaled \$773,000. Significant changes in the Company's assets and liabilities in the nine months ended September 30, 2008 included:

- ◆ A \$1.2 million increase in the Company's contract receivables. The Company's trade receivables increased from \$4.2 million at December 31, 2007 (including \$1.0 million due from ESA) to \$8.7 million at September 30, 2008 (including \$2.7 million due from ESA) while the Company's unbilled receivables decreased by \$3.3 million to \$3.2 million at September 30, 2008. At September 30, 2008, trade receivables outstanding for more than 90 days totaled \$3.3 million (including \$2.7 million from ESA) versus \$2,000 at December 31, 2007.
- ◆ A \$1.4 million increase in billings in excess of revenues earned. The increase is due to the timing of contracted billing milestones of the Company's current projects.

*Cash used in investing activities.* Net cash used in investing activities totaled \$1.4 million for the nine months ended September 30, 2009. Capital expenditures totaled \$256,000 and capitalized software development costs totaled \$476,000. The Company deposited \$566,000 in a restricted bank account as collateral for foreign currency contracts and increased the cash used as collateral for stand-by letters of credit and bank guarantees by \$60,000.

For the nine months ended September 30, 2008, net cash used in investing activities totaled \$1.9 million. The Company increased its investment in ESA by \$422,000, capital expenditures totaled \$600,000, and capitalized software development costs totaled \$530,000. Cash used as collateral for stand-by letters of credit increased by \$358,000, net.

*Cash provided by financing activities.* For the nine months ended September 30, 2009, net cash provided by financing activities totaled \$15.4 million. On September 4, 2009, the Company raised \$15.0 million through the sale of 2.5 million shares of its common stock, \$.01 par value per share. The shares were sold under a shelf registration statement which was declared effective by the Securities and Exchange Commission on August 21, 2009. On September 23, 2009, the Company raised an additional \$2,250,000 when the Company's underwriter exercised an over-allotment option in full to purchase an additional 375,000 shares of the Company's common stock at the public offering price of \$6.00 per share. The aggregate net proceeds received by the Company from the two transactions was approximately \$15.9 million. The Company received \$121,000 from the issuance of common stock for employee stock options and warrants exercised in the nine months ended September 30, 2009. In accordance with the amendment to the Company's \$2.5 million BOA line of credit effective May 5, 2009, the Company placed \$600,000 in a restricted certificate of deposit. This certificate of deposit is included in the borrowing base calculation to determine the amount of funds that the Company can utilize under its \$2.5 million line of credit. In the nine months ended September 30, 2009, the Company spent \$20,000 on deferred financing costs in conjunction with the Bank of America lines of credit.

Cash provided by financing activities for the nine months ended September 30, 2008 totaled \$483,000. The Company received \$571,000 from the issuance of common stock from the exercise of warrants and employee stock options and spent \$88,000 on deferred financing costs in conjunction with the new Bank of America lines of credit.

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*Credit Facilities*

On March 28, 2008, the Company entered into two separate revolving line of credit agreements for two-year revolving lines of credit with Bank of America, N.A. (“BOA”). The Company and its subsidiary, GSE Power Systems, Inc., are jointly and severally liable as co-borrowers. The credit facilities enable the Company to borrow funds to support working capital needs and standby letters of credit. The first line of credit in the principal amount of up to \$3.5 million enables the Company to borrow funds up to 90% of eligible foreign accounts receivable, plus 75% of eligible unbilled foreign receivables and 100% of cash collateral pledged to BOA on outstanding warranty standby letters of credit. This line of credit is 90% guaranteed by the Export-Import Bank of the United States. The interest rate on this line of credit is based on the daily LIBOR rate plus 150 basis points, with interest only payments due monthly. The second line of credit was originally in the principal amount of up to \$1.5 million, however, on May 5, 2009, the credit agreement was amended to increase the principal amount to \$2.5 million. This line of credit enables the Company to borrow funds up to 80% of domestic accounts receivable, 30% of domestic unbilled receivables and 100% of the principal balance of a \$600,000 certificate of deposit issued by BOA. The interest rate on this line of credit is based on the daily LIBOR rate plus 225 basis points, with interest only payments due monthly. Both credit agreements contain financial covenants with respect to the Company’s minimum tangible net worth, debt service coverage ratio, and funded debt to EBITDA ratio. At September 30, 2009, the Company was in compliance with all of these financial covenants as shown below:

	Covenant	As of Sept. 30, 2009
Tangible net worth	Must Exceed \$15.0 million	\$36.0 million
Debt service coverage ratio	Must Exceed 1.25 : 1.00	2,515 : 1.00
Funded debt to EBITDA ratio	Not to Exceed 2.50 : 1.00	.91 : 1.00

In addition, the credit agreements contain certain restrictive covenants regarding future acquisitions, incurrence of debt and the payment of dividends. At September 30, 2009, the Company’s available borrowing base under the two lines of credit was \$5.5 million of which \$520,000 had been utilized as collateral for two standby letters of credit.

**Item 3. Quantitative and Qualitative Disclosure about Market Risk**

The Company’s market risk is principally confined to changes in foreign currency exchange rates. The Company’s exposure to foreign exchange rate fluctuations arises in part from inter-company accounts in which costs incurred in one entity are charged to other entities in different foreign jurisdictions. The Company is also exposed to foreign exchange rate fluctuations as the financial results of all foreign subsidiaries are translated into U.S. dollars in consolidation. As exchange rates vary, those results when translated may vary from expectations and adversely impact overall expected profitability.

The Company utilizes forward foreign currency exchange contracts to manage market risks associated with the fluctuations in foreign currency exchange rates. The principal currencies for which such forward exchange contracts are entered into are the Pound Sterling, the Euro and the Japanese Yen. It is the Company’s policy to use such derivative financial instruments to protect against market risk arising in the normal course of business in order to reduce the impact of these exposures. The Company minimizes credit exposure by limiting counterparties to nationally recognized financial institutions.

As of September 30, 2009, the Company had foreign exchange contracts for sale of approximately 2.0 million Pounds Sterling, 3.1 million Euro and 870 million Japanese Yen at fixed rates. The contracts expire on various dates through February 2014. The Company had not designated the contracts as hedges and has recognized a gain on the change in the estimated fair value of the contracts of \$705,000 for the three months ended

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September 30, 2009 and a gain of \$806,000 for the nine months ended September 30, 2009. A 10% fluctuation in the foreign currency exchange rates up or down as of September 30, 2009 would have increased/decreased the change in estimated fair value of the contracts by \$81,000.

At September 30, 2008, the Company had contracts for the sale of approximately 2.4 million Euro, 2.5 million Pounds Sterling and 135 million Japanese Yen at fixed rates. The contracts expire on various dates through September 2013. The Company had not designated the contracts as hedges and recognized a loss of \$190,000 and \$185,000 in the change in the estimated fair value of the contracts during the three and nine months ended September 30, 2008, respectively. For the three and nine months ended September 30, 2008, the Company recognized a \$20,000 gain from the remeasurement of the related contract receivables and billings in excess of revenue earned.

The Company is also subject to market risk related to the interest rate on its existing lines of credit. However, during the first nine months of 2009, the Company had no outstanding borrowings from its lines of credit.

#### **Item 4. Controls and Procedures**

(a) Evaluation of disclosure controls and procedures. The Company maintains adequate internal disclosure controls and procedures (as such term is defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934 (the "Exchange Act"), as amended) as of the end of the period covered by this quarterly report on Form 10-Q pursuant to Rule 13a-15(b) under the Exchange Act that are designed to ensure that information required to be disclosed by it in its reports filed or submitted pursuant to the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the Commission's rules and forms and that information required to be disclosed by the Company in its Exchange Act reports is accumulated and communicated to management, including the Company's Chief Executive Officer ("CEO"), who is its principal executive officer, and Chief Financial Officer ("CFO"), who is its principal financial officer, to allow timely decisions regarding required disclosure.

The Company's CEO and CFO are responsible for establishing and maintaining adequate internal control over the Company's financial reporting. They have reviewed and evaluated the effectiveness of the Company's disclosure controls and procedures pursuant to Exchange Act Rule 13a-14 as of September 30, 2009 in order to ensure the reporting of material information required to be included in the Company's periodic filings with the Commission comply with the Commission's requirements for certification of this Form 10-Q. Based on that evaluation, the Company's CEO and CFO have concluded that as of September 30, 2009 the Company's disclosure controls and procedures were effective at the reasonable assurance level to satisfy the objectives for which they were intended and that the information required to be disclosed is (a) recorded, processed, summarized and reported within the time periods specified in the Commission's rules and forms and (b) compiled and communicated to our management to allow timely decisions regarding required disclosure.

(b) Changes in internal control. There were no changes in the Company's internal control over financial reporting that occurred during the most recent fiscal quarter that have materially affected or are reasonably likely to materially affect the Company's internal control over financial reporting.

#### **Limitation of Effectiveness of Controls**

It should be noted that any system of controls, however well designed and operated, can provide only reasonable, and not absolute, assurance that the objectives of the system will be met. The design of any control

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system is based, in part, upon the benefits of the control system relative to its costs. Because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that all control issues and instances of fraud, if any, within the Company have been detected. These inherent limitations include the realities that judgments in decision making can be faulty, and that controls can be circumvented by the individual acts of some persons, by collusion of two or more people or by management override of control. In addition, over time, controls may become inadequate because of changes in conditions, or the degree of compliance with the policies or procedures may deteriorate. In addition, the design of any control system is based in part upon certain assumptions about the likelihood of future events. Because of inherent limitation in a cost-effective control system, misstatements due to error or fraud may occur and not be detected. The Company's controls and procedures are designed to provide a reasonable level of assurance of achieving their objectives.

**PART II - OTHER INFORMATION**

**Item 1. Legal Proceedings**

None.

**Item 1A. Risk Factors**

The Company has no material changes to the disclosure on this matter made in its Annual Report on Form 10-K for the fiscal year ended December 31, 2008.

**Item 2. Unregistered Sales of Equity Securities and Use of Proceeds**

None

**Item 3. Defaults Upon Senior Securities**

None

**Item 4. Submission of Matters to a Vote of Security Holders**

None

**Item 5. Other Information**

None

**Item 6. Exhibits**

- 31.1 Certification of the Chief Executive Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002, filed herewith.
- 31.2 Certification of the Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002, filed herewith.
- 32.1 Certification of the Chief Executive Officer and Chief Financial Officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, filed herewith.

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**SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

Date: November 9, 2009

GSE SYSTEMS, INC.

/S/ JOHN V. MORAN

John V. Moran  
Chief Executive Officer  
(Principal Executive Officer)

/S/ JEFFERY G. HOUGH

Jeffery G. Hough  
Senior Vice President and Chief Financial Officer  
(Principal Financial and Accounting Officer)