SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM 11-K

(Mark One)

x ANNUAL REPORT PURSUANT TO SECTION 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the Fiscal Year Ended December 31, 2009

OR

o TRANSITION REPORT PURSUANT TO SECTION 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from

to

Commission file number 1-13011

A. Full title of the Plan and address of the Plan, if different from that of the issuer named below:

Comfort Systems USA, Inc. 401(k) Plan 675 Bering Drive, Suite 400 Houston, TX 77057

B. Name of issuer of the securities held pursuant to the Plan and the address of its principal executive office:

Comfort Systems USA, Inc.

675 Bering Drive, Suite 400 Houston, TX 77057

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Comfort Systems USA, Inc. 401(k) Plan Financial Statements

December 31, 2009 and 2008

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* All other schedules required by 29 CFR 2520.103-10 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employment Retirement Income Security Act of 1974 are omitted, as they are not applicable or required.

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Report of Independent Registered Public Accounting Firm

To the Participants and Plan Administrator of Comfort Systems USA, Inc. 401(k) Plan Houston, Texas

We have audited the accompanying statements of net assets available for benefits of Comfort Systems USA, Inc. 401(k) Plan (the "Plan") as of December 31, 2009 and 2008, and the related statement of changes in net assets available for benefits for the year ended December 31, 2009. These financial statements are the responsibility of the Plan's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the net assets available for benefits of the Plan as of December 31, 2009 and 2008, and the changes in net assets available for benefits for the year ended December 31, 2009 in conformity with U.S. generally accepted accounting principles.

Our audits were performed for the purpose of forming an opinion on the basic financial statements taken as a whole. The supplemental schedules of delinquent participant contributions for the year ended December 31, 2009, and assets (held at end of year) as of December 31, 2009, are presented for the purposes of additional analysis and are not a required part of the basic financial statements but are supplementary information required by the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974. These supplemental schedules are the responsibility of the Plan's management. The supplemental schedules have been subjected to the auditing procedures applied in the audits of the basic financial statements and, in our opinion, are fairly stated in all material respects in relation to the basic financial statements taken as a whole.

/s/ UHY LLP

Houston, Texas June 25, 2010

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Comfort Systems USA, Inc. 401(k) Plan Statements of Net Assets Available for Benefits

	December 51,		
	2009		2008
Assets	 _		
Investments, at fair value	\$ 173,395,301	\$	130,852,850
Receivables:			
Employer contributions	108,777		281,842
Participant contributions	297,029		769,193
Total receivables	405,806		1,051,035
Net assets available for benefits	\$ 173,801,107	\$	131,903,885

See accompanying notes to the financial statements.

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Comfort Systems USA, Inc. 401(k) Plan Statement of Changes in Net Assets Available for Benefits

Year Ended December 31, 2009

F	Additions To Net Assets:	
	Investment Income	
	Net appreciation in fair value of investments	\$ 29,409,569
	Interest and dividend income	1,888,941
	Total Investment Income	31,298,510

Contributions	
Employer	4,730,709
Participant	14,472,684
Participant rollovers	364,999
Total Contributions	19,568,392
Total Additions To Net Assets	50,866,902
Deductions From Net Assets:	
Benefits paid to participants	15,980,718
Corrective distributions	122,175
Administrative expenses	124,902
Total Deductions From Net Assets	16,227,795
Transfers From Other Plans	7,258,115
Net Increase	41,897,222
Net Assets Available For Benefits:	
Beginning of Year	131,903,885
End of Year	\$ 173,801,107
See accompanying notes to the financial statements.	

See accompanying notes to the financial statements.

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Comfort Systems USA, Inc. 401(k) Plan **Notes to Financial Statements**

December 31, 2009 and 2008

1. Description of Plan

General

The following description of the Comfort Systems USA, Inc. 401(k) Plan (the "Plan") is provided for general information only. Participants should refer to the Summary Plan Description for a more complete description of the Plan's provisions, a copy of which is available from Comfort Systems USA, Inc. (the "Company").

The Plan is a defined contribution plan, established effective October 1, 1998, as amended and restated effective January 1, 2003, and is subject to the provisions of the Employee Retirement Income Security Act of 1974 ("ERISA").

Eligibility

Employees of the Company are eligible to participate in the Plan on the first day of each month coincident with or following the date of hire. Employees of the Company are eligible to receive the Company's discretionary matching contributions immediately upon contributing, as defined in the Plan.

Contributions

Participants may elect to contribute a percentage or a specified amount of their compensation during the plan year which is defined in the Plan and subject to the limits imposed by the Internal Revenue Code ("IRC"). Participants may also contribute amounts representing rollover distributions from other qualified plans.

The Plan permits the Company to automatically enroll newly hired employees into the Plan with an automatic contribution of 3% of compensation. Employees receive notice before the automatic contribution begins. An employee may opt out of the automatic enrollment within 15 days of receiving the notice by either electing not to contribute or electing a different contribution percentage or specified contribution amount. If the employee does not direct their contributions, amounts will be invested in a Prudential Retirement Goal Fund based on the employee's age and target retirement date.

The Plan permits the Company to designate one or more investment options as the Plan's "qualified default investment alternative" within the meaning of Section 624 of the Pension Protection Act of 2006 and regulations issued thereunder. The Company designated a series of pooled separate accounts offered by Prudential Retirement Insurance and Annuity Company ("PRIAC") under the names Retirement Goal 2010, Retirement Goal 2020, Retirement Goal 2030, Retirement Goal 2040 and Retirement Goal 2050 as the default investment options under the Plan. Notice regarding the Company's designation of those funds as the Plan's default investment option was provided to Plan participants in March 2008.

The Company may make a discretionary matching contribution to the Plan in an amount equal to a percentage determined by the Company. Additional discretionary contributions may be made at the option of the Company, including regular profit-sharing contributions. Additional discretionary contributions totaled \$281,818 for the year ended December 31, 2009. Certain participants whose services are covered by the federal, state, or municipal prevailing wage law or the Davis Bacon Act, as amended, receive Company prevailing wage law profit-sharing contributions. Davis Bacon Act contributions totaled \$226,053 for the year ended December 31, 2009.

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Comfort Systems USA, Inc. 401(k) Plan Notes to Financial Statements

Participant Accounts

Each participant's account is credited with the participant's contribution, the Company discretionary matching contribution, if any, and allocations of (a) the Company's additional discretionary contribution and (b) Plan earnings, and charged with an allocation of administrative expenses. Allocations are based on the participant earnings or account balances, as defined by the Plan. The benefit to which a participant is entitled is the benefit that can be provided from the participant's vested account.

Vesting

Participants are immediately 100% vested in their contributions and the prevailing wage law profit-sharing contributions made on behalf of eligible participants plus actual earnings thereon. A participant is 20% vested in Company discretionary contributions after one year and an additional 20% for each year thereafter. Participants are 100% vested in Company discretionary contributions plus earnings upon attainment of age 59½, death, or disability. Participants whose service terminates prior to age 59½ for reasons other than retirement, death, or disability are eligible to receive vested Company discretionary contributions, if any, and interest thereon based on years of service.

Participant Loans

Participants may borrow from their accounts a minimum of \$1,000 up to a maximum equal to the lesser of \$50,000 or 50% of their vested account balance, less the participant's highest outstanding loan balance during the preceding 12 months. The loans are secured by the balance in the participant's account. The loan term may not exceed five years, except for loans used for the purchase of a principal residence, which may be repaid in up to ten years. The interest rate is fixed at the time of borrowing and shall be a reasonable rate of interest as determined by the plan administrator. Principal and interest are paid ratably through payroll deductions. Participant loans were \$4,816,211 and \$4,288,929 at December 31, 2009 and 2008, respectively.

Participant Withdrawals

If a participant is age 59 ½ or older, he or she may withdraw all or a portion of his or her account balance in the Plan.

If a participant has a "financial hardship" (as that term is defined by the Internal Revenue Service ("IRS") guidelines), it is possible to withdraw all or portion of his or her vested account balance in the Plan up to the amount needed to satisfy the hardship, regardless of age. Employee pretax contributions are suspended for six months after each hardship withdrawal.

Payment of Benefits

On termination of service due to death, disability, or retirement, the Plan permits the participant or their beneficiary to receive their benefits under the Plan in the form of either a single lump sum cash payment, or in installment payments over a period not exceeding the participant's life expectancy, or in the form of an annuity contract purchased from an insurance company. For termination of service for other reasons, a participant may receive the value of the vested interest in his or her account as a lump sum distribution.

Forfeitures

Forfeitures occur when a participant terminates employment before becoming 100% vested with respect to their Company discretionary contributions. Forfeitures shall first be used to pay administrative expenses of the Plan and then to reduce future Company discretionary contributions. At December 31, 2009 and 2008, forfeited unallocated nonvested accounts totaled \$258,269 and \$202,172, respectively. For the year ended December 31, 2009, Company discretionary contributions were

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Comfort Systems USA, Inc. 401(k) Plan Notes to Financial Statements

reduced by \$354,712 from forfeited nonvested accounts. For the year ended December 31, 2009, administrative expenses of \$47,289 were paid from forfeited nonvested accounts.

Administrative Expenses

Certain administrative expenses of the Plan are paid by the Company. Participants are responsible for fees associated with transactions such as loan originations, account maintenance, distributions and withdrawals.

Plan Termination

Although it has not expressed any intent to do so, the Company has the right under the Plan to terminate the Plan subject to the provisions of ERISA. Upon plan termination, participants would become 100% vested in their account balances.

2. Summary of Accounting Policies

Basis of Accounting

The accompanying financial statements of the Plan are prepared on an accrual method of accounting in accordance with U.S. generally accepted accounting principles.

Benefits

Benefit payments to participants are recorded upon distribution.

Accounting Standards Codification

In June 2009, the Financial Accounting Standards Board ("FASB") established the Accounting Standards Codification ("ASC") as the source for authoritative accounting principles recognized by the FASB to be applied by non-governmental entities in the preparation of financial statements in accordance with generally accepted accounting principles ("GAAP") in the United States of America. All existing accounting standards are superseded by the ASC and any accounting literature not included in the ASC will be non-authoritative. Existing GAAP was not intended to be changed as a result of the ASC, and accordingly, the change did not impact the Plan's financial statements. The ASC does change the way the guidance is organized and presented.

Transfers From Other Plans

The Plan presents in the Statement of Changes in Net Assets Available for Benefits the amount of transfers from other plans.

Conditioned Air Mechanical Services, Inc. 401(k) Plan merged into the Plan on March 1, 2009 as a result of an acquisition made by the Company. Transferred assets totaled \$459,630. Affected participants became eligible to participate in the Plan subject to the provisions of the Plan agreement.

Delcard Associates, Inc. 401(k) Plan merged into the Plan on April 1, 2009 as a result of an acquisition made by the Company. Transferred assets totaled \$4,726,060, including loans of \$299,176. Affected participants became eligible to participate in the Plan subject to the provisions of the Plan agreement.

Air Systems Engineering, Inc. 401(k) Profit Sharing Plan merged into the Plan on May 1, 2009 as a result of an acquisition made by the Company. Transferred assets totaled \$2,072,425, including loans of \$49,236. Affected participants became eligible to participate in the Plan subject to the provisions of the Plan agreement.

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Comfort Systems USA, Inc. 401(k) Plan Notes to Financial Statements

Use of Estimates

The preparation of financial statements in conformity with U.S. generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and changes therein, and disclosure of contingent assets and liabilities. Actual results could differ from those estimates.

Fair Value Measurement

On January 1, 2008, the Plan adopted the standard related to fair value measurement, for its investments recognized at fair value. The adoption of this standard did not have a material impact on the Plan's financial statements. The standard defines fair value as the 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.

The standard establishes a fair value hierarchy, which prioritizes the inputs used in measuring fair value into three levels based on the extent to which inputs used in measuring fair value are observable in the market.

These levels include:

- · Level 1 defined as observable inputs such as quoted prices in active markets;
- · Level 2 defined as observable inputs other than quoted prices in active markets that are either directly or indirectly observable; and
- · Level 3 defined as unobservable inputs in which there is little or no market data available, therefore requiring an entity to develop its own assumptions.

A financial instrument's level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. Valuation techniques used need to maximize the use of observable inputs and minimize the use of unobservable inputs.

The following is a description of the valuation methodologies used for assets measured at fair value. There have been no changes in the methodologies used at December 31, 2009 and 2008.

· Comfort Systems USA, Inc. Common Stock: The stock is valued at the closing price reported on the New York Stock Exchange.

Prudential Guaranteed Income Fund: This fund is valued at contract value, which approximates fair value. The fund is fully benefit-responsive; therefore, contract value is the relevant measurement attribute for that portion of the net assets available for benefits attributable to the fund. Contract value represents contributions made under the contract, plus earnings, less participant withdrawals and administrative expenses. Participants may ordinarily direct the withdrawal or transfer of all or a portion of their investment at contract value. There are no reserves against the fund value for credit risk of the fund issuer or otherwise.

The Plan's investment in the fund falls into the Level 2 category due to being valued using a comparison to similar assets in an active market. The fund is a stable value product specifically designed for defined contribution plans to provide money market-like liquidity and safety of principal with an attractive rate of return.

Great-West Guaranteed Portfolio Fund: The fund is valued at contract value, which approximates fair value. The fund is fully benefit-responsive; therefore, contract value is the

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Comfort Systems USA, Inc. 401(k) Plan Notes to Financial Statements

relevant measurement attribute for that portion of the net assets available for benefits attributable to the fund. The methodology for calculating the interest crediting rate is based on the earnings of the underlying assets in the entire medium-long term new portfolio compared to the minimum interest crediting rate, as stated in the contract, and prevailing market conditions. Interest crediting rate is reset quarterly.

- Pooled Separate Accounts: These accounts are valued on a net unit value basis as determined by Prudential on the last business day of the Plan year. The fair values of these investments are determined by reference to the respective fund's underlying assets, with Prudential specifying the source(s) to use for underlying investment asset prices. The investments underlying the Plan's pooled separate accounts primarily include domestic and international equities and domestic fixed income securities. The net assets value price of the pooled separate accounts is not quoted on any market; however, the unit price is based on the underlying investments which are traded in an active market and are classified as Level 2.
- · Participant Loans: The loans are valued at amortized cost, which approximates fair value.

The preceding methods described may produce a fair value calculation that may not be indicative of net realizable value or reflective of future fair values. Furthermore, although the Plan believes its valuation methods are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different fair value measurement at the reporting date

Investment Valuation and Income Recognition

The Plan's investments are held in a group annuity contract with PRIAC, a company of Prudential Financial, Inc. ("Prudential"). In conjunction with the merger of Merit Mechanical, Inc. 401(k) Employees Retirement Plan into the Plan, an investment of the Plan was held in a group annuity contract with Great-West Life & Annuity Insurance Company ("Great-West"). The contract with PRIAC includes the Prudential Guaranteed Income Fund, which is invested in Prudential's general portfolio. The contract with Great-West includes the Great-West Guaranteed Portfolio Fund, which is invested in Great-West's general account. Both contracts are recorded at contract value, which approximates fair value.

Investment contracts held by a defined contribution plan are required to be reported at fair value. However, contract value is the relevant measurement attribute for that portion of the net assets available for benefits of a defined contribution plan attributable to fully benefit-responsive investment contracts because contract value is the amount participants would receive if they were to initiate permitted transactions under the terms of the plan. Management evaluated both investment contracts and determined that they do not have an impact on the Plan's financial statements as the contract value approximates fair value as of December 31, 2009 and 2008. The contracts do not have maturity dates and therefore cash flows are unable to be discounted to determine the fair market value, and are therefore calculated as the contract value. As of December 31, 2009 and 2008, the contract value with PRIAC was \$45,218,515 and \$42,301,462, respectively. The contract value with Great-West as of December 31, 2008 was \$268,133. As of July 1, 2009, the contract value with Great-West was transferred to PRIAC and was cancelled by the Plan; therefore, as of December 31, 2009, the Plan had no amounts outstanding with Great-West. The contracts do not have penalties for early withdrawals. Participant-directed transfers among investment options and distributions will normally be made immediately; however, Prudential and Great-West may exercise their contractual rights to defer a

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Comfort Systems USA, Inc. 401(k) Plan Notes to Financial Statements

transfer or distribution from the funds. It has seldom been necessary for Prudential and Great-West to invoke this deferral provision.

The rate of credited interest for any period of time will be determined by PRIAC and is guaranteed for six-month periods (January 1 through June 30 and July 1 through December 31). The average credited interest for PRIAC was approximately 3.35% and 3.93% for the years ended December 31, 2009 and 2008, respectively. The rate at which interest was accrued to the contract balance for PRIAC was 3.10% and 3.85% as of December 31, 2009 and 2008.

The rate of credited interest for any period of time will be determined by Great-West and is guaranteed for three-month periods (January 1 through March 31, April 1 through June 30, July 1 through September 30, and October 1 through December 31). The average credited interest rate for Great-West was approximately 3.05% for the six months ended June 30, 2009 and 3.33% for the year ended December 31, 2008. The rate of which interest was accrued to the contract balance for Great-West was 2.95% as of June 30, 2009 and 3.55% as of December 31, 2008.

The contracts also include investments in pooled separate accounts, which were stated at fair value as determined by PRIAC and Great-West at December 31, 2009 and 2008, based on the quoted market values of the underlying assets in the separate accounts. Common stock is stated at fair value based on quotations obtained from national securities exchanges. Participant loans are stated at cost, which approximates fair value.

Purchases and sales of securities are recorded on a trade-date basis. Interest income is recorded on the accrual basis. Dividends are recorded on the exdividend date.

Subsequent Events

The Company evaluated subsequent events through the time of filing this Annual Report on Form 11-K. No significant events, other than those described in Note 9, occurred subsequent to the statements of net assets available for benefits or prior to the filing of this report that would have a material impact on the financial statements.

Recent Accounting Guidance

In January 2010, the FASB issued ASU No. 2010-06, *Fair Value Measurements and Disclosures* (ASU No. 2010-06), which amends ASC 820 (originally issued as FASB Statement No. 157, *Fair Value Measurements*), adding new disclosure requirements for Levels 1 and 2, separate disclosures of purchases, sales, issuances, and settlements relating to Level 3 measurements and clarification of existing fair value disclosures. ASU No. 2010-06 is effective for periods beginning after December 15, 2009, except for the requirement to provide Level 3 activity of purchases, sales, issuances, and settlements on a gross basis, which will be effective for fiscal years beginning after December 15, 2010. The Plan is currently evaluating the impact ASU No. 2010-06 will have on the financial statements.

Reclassifications

Certain reclassifications have been made to the 2008 notes to the financial statements to conform to the 2009 presentation.

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Comfort Systems USA, Inc. 401(k) Plan Notes to Financial Statements

3. Investments

As of December 31, 2009 and 2008, the Plan's trustees were Prudential Bank & Trust, FSB, PRIAC, and Great-West (through June 30, 2009). Individual investments that represent 5% or more of the Plan's net assets are as follows:

	December 31,			
		2009		2008
Prudential Guaranteed Income Fund	\$	45,218,515	\$	42,301,462
PRIAC pooled separate accounts:				
Large Cap Growth/Goldman Sachs		18,387,372		11,739,549
SA/OFII Global Strategy**		11,982,305		8,426,116
Retirement Goal 2040 fund		9,530,010		*
Balanced I/Wellington Management Fund		*		6,973,264
Total investments exceeding 5%		85,118,202		69,440,391
Other investments		88,277,099		61,412,459
TOTAL INVESTMENTS	\$	173,395,301	\$	130,852,850

^{*} Investment individually does not represent 5% or more of the net assets available for benefits at the date indicated.

During 2009, the Plan's investments (including investments bought, sold, and held during the plan year) appreciated as follows:

	_	Year Ended December 31, 2009
Common Stock	\$	702,271
Pooled separate accounts		28,707,298
	\$	29,409,569

^{**} SA/OFII Global Strategy changed its name from Oppenheimer Global (A) effective April 3, 2009.

4. Fair Value Disclosures

The assets measured at fair value on a recurring basis subject to the disclosure requirements of the fair value measurement standard related to the fair value hierarchy levels described in Note 2 as of December 31, 2009 and 2008 are as follows:

		 Fair Value Measurements at Reporting Date Using:			ing:	
	Balance, December 31, 2009 (1)	Quoted Prices in Active Markets for Identical Assets (Level 1)	S	Significant Other Observable Inputs (Level 2) (2)	ı	Significant Unobservable Inputs (Level 3)
Pooled Separate Accounts	 					
Index Funds	\$ 63,251,646	\$ _	\$	63,251,646	\$	_
Balanced Funds	39,769,352	_		39,769,352		_
Global /International Funds	15,508,936	_		15,508,936		_
Other Funds	713	_		713		_
Total Pooled Separate Accounts	 118,530,647	_		118,530,647		_
Comfort Systems USA, Inc. Common Stock	 4,829,928	4,829,928		_		
Prudential Guaranteed Income Fund	45,218,515	_		45,218,515		_
Participant Loans	4,816,211	_		_		4,816,211
	\$ 173,395,301	\$ 4,829,928	\$	163,749,162	\$	4,816,211
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Comfort Systems USA, Inc. 401(k) Plan Notes to Financial Statements

		 Fair Value Measurements at Reporting Date Using:			sing:	
	Balance, December 31, 2008 (1)	Quoted Prices in Active Markets for Identical Assets (Level 1)		Significant Other Observable Inputs (Level 2) (2)		Significant Unobservable Inputs (Level 3)
Pooled Separate Accounts						
Index Funds	\$ 42,875,819	\$ _	\$	42,875,819	\$	_
Balanced Funds	25,059,550	_		25,059,550		_
Global /International Funds	11,009,534	_		11,009,534		_
Other Funds	631	_		631		_
Total Pooled Separate Accounts	78,945,534	_		78,945,534		
Comfort Systems USA, Inc. Common Stock	5,048,792	5,048,792				_
Prudential Guaranteed Income Fund	42,301,462	_		42,301,462		_
Great-West Guaranteed Portfolio Fund	268,133	_		268,133		
Participant Loans	4,288,929	_				4,288,929
	\$ 130,852,850	\$ 5,048,792	\$	121,515,129	\$	4,288,929

⁽¹⁾ The fair market value allocation of these funds is based on the most current prospectus at December 31, 2009 and 2008, provided by Prudential.

The following table sets forth information summarizing the changes in fair value of the Plan's Level 3 investment assets for the year ended December 31, 2009:

	Participant Loans
Fair value January 1, 2009	\$ 4,288,929
Loan repayments (Principal)	(1,789,777)
Merged loans	348,412
Loans deemed distributed	(823,065)
Loan withdrawals	2,791,712
Fair value December 31, 2009	\$ 4,816,211

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Comfort Systems USA, Inc. 401(k) Plan Notes to Financial Statements

5. Income Tax Status

The Plan obtained its determination letter on March 25, 2005, in which the IRS stated that the Plan, as then designed, was in compliance with the applicable requirements of the IRC. The Plan has been amended since receiving the determination letter; however, the plan administrator believes that the Plan is currently designed in compliance with the applicable requirements of the IRC.

⁽²⁾ Guaranteed Income Funds and Pooled Separate Accounts include cash ranging from 0% to 5%.

The Company has identified a possible operational defect in the Plan's administration. The Plan amendment dated effective April 1, 2008 purported to include a 3% automatic enrollment provision applicable to all new employees hired on or after April 1, 2008. The automatic enrollment provision however was not applied uniformly to all new employees. Instead, the provision has been extended to various operating subsidiaries at various times since April 1, 2008. The Company is consulting with its legal counsel and is determining the best possible way to correct the apparent inconsistency. As of the date of this report, the Company and its legal counsel can not provide an estimate of corrective action.

6. Prohibited Transactions

During the year ended December 31, 2009, the Company failed to remit to the Plan's trustee/custodian certain employee contributions totaling \$29,394 within the period prescribed by the Department of Labor's regulations. The delay in remitting contributions to the trustee/custodian was due to administrative error. These instances were corrected during the year ended December 31, 2009 and the Company has made contributions to the affected participants' accounts for potential lost income due to the delays.

7. Risks and Uncertainties

The Plan provides for various investments in common stock, pooled separate accounts, and a group annuity contract. Investment securities, in general, are exposed to various risks, such as interest rate, credit, and overall market volatility risks. Due to the level of risk associated with certain investment securities, it is reasonably possible that changes in the value of investment securities will occur in the near term and that such changes could materially affect the amounts reported in the statements of net assets available for benefits and participant account balances.

8. Party-in-Interest Transactions

The Plan invests in various PRIAC and Great-West pooled separate accounts. These investments are considered party-in-interest transactions because Prudential Bank & Trust, FSB, a company of Prudential, and Great-West serve as trustees of the Plan. The Plan's management has approved these investment options.

The Plan also invests in the Company's common stock. Transactions in Company stock are considered party-in-interest transactions because the Company is the Plan sponsor.

9. Subsequent Event

The Plan was restated January 1, 2010 and has applied for but not received a determination letter from the IRS stating that the Plan is qualified under Section 401(a) of the IRC. However, the plan administrator believes that the Plan has been designed to comply with the requirements of the IRC and has indicated that it will take the necessary steps, if any, to bring the Plan's operations and/or document into compliance with the IRC.

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Darticipant

Comfort Systems USA, Inc. 401(k) Plan Schedule H, Line 4(a) — Schedule of Delinquent Participant Contributions

EIN: 76-0526487 PN: 001 Year ended December 31, 2009

Total that	Constitute Nonexempt Prohibited To	ransactions	Total Fully
'-		Contributions	Corrected
	Contributions	Pending	Under VFCP
		Correction in	and PTE 2002-
Corrected	VFCP	VFCP	51
\$	\$ 29,394	\$	\$
	Contributions Not Corrected \$ —	Contributions Contributions Not Corrected Outside Corrected VFCP	Contributions Pending Contributions Not Corrected Outside Correction in Corrected VFCP VFCP

See accompanying Report of Independent Registered Public Accounting Firm.

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Comfort Systems USA, Inc. 401(k) Plan Schedule H, Line 4(i) — Schedule of Assets (Held At End of Year)

EIN: 76-0526487 PN: 001 December 31, 2009

(a)	(b)	(c) Description of Investment including maturity	(d)	(e)
	Identity of issue, borrower, lessor, or similar party	date, rate of interest, collateral, par or maturity value	Cost	 Current Value
*	Prudential Retirement Ins	Guaranteed Income Fund	N/A	\$ 45,218,515
*	Prudential Retirement Ins	Retirement Goal 2050 Fund	N/A	3,784,092
*	Prudential Retirement Ins	Retirement Goal 2040 Fund	N/A	9,530,010
*	Prudential Retirement Ins	Retirement Goal 2030 Fund	N/A	8,540,453
*	Prudential Retirement Ins	Retirement Goal 2020 Fund	N/A	6,242,749

*	Prudential Retirement Ins	Retirement Goal 2010 Fund	N/A	3,305,172
*	Prudential Retirement Ins	Dryden S&P 500 Index Fund	N/A	6,037,070
*	Prudential Retirement Ins	Large Cap Growth/Goldman Sachs	N/A	18,387,372
*	Prudential Retirement Ins	Small Cap Growth/Times Square Fund	N/A	6,206,828
*	Prudential Ret. Brokerage Svcs.	Comfort Systems USA Stock — 391,404 shares	N/A	4,829,928
*	Prudential Retirement Ins	Large Cap Value/LSV Asset Mgmt	N/A	8,608,115
*	Prudential Retirement Ins	Mid Cap Value/Wellington Mgmt	N/A	4,836,271
*	Prudential Retirement Ins	International Blend/The Boston Co	N/A	3,526,631
*	Prudential Retirement Ins	Balanced I/Wellington Management Fund	N/A	8,059,364
*	Prudential Retirement Ins	SA/OFII Global Strategy	N/A	11,982,305
*	Prudential Retirement Ins	Mid Cap Growth/Goldman Sachs Fund	N/A	8,140,869
*	Prudential Retirement Ins	Retirement Goal Income Fund	N/A	307,512
*	Prudential Retirement Ins	Collect Russell 3000	N/A	4,156,736
*	Prudential Retirement Ins	SA/WF Small Cap Val Strat	N/A	6,878,385
*	Prudential Retirement Ins	AP Fund	N/A	713
*	Outstanding Participant Loans	5.00% - 10.50%, various maturity dates through 2026	_	4,816,211
	· ·	·		
			9	173,395,301

N/A - - Not applicable as permitted by Department of Labor for participant-directed individual account plans.

See accompanying Report of Independent Registered Public Accounting Firm.

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SIGNATURES

Pursuant to the requirements of the Securities and Exchange Act of 1934, the 401(k) Investment Committee has duly caused this annual report to be signed on its behalf by the undersigned hereunder duly authorized.

COMFORT SYSTEMS USA, INC. 401(k) PLAN

By: /s/ WILLIAM GEORGE

William George Executive Vice President and Chief Financial Officer of Comfort Systems USA, Inc.

401(k) Investment Committee Member

Date: June 25, 2010

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INDEX TO EXHIBITS

The following is included as an exhibit to the report:

NUMBER

23.1 Consent of UHY LLP

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CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We hereby consent to the incorporation by reference in the Registration Statement on Form S-8 (File No. 333-44356) pertaining to the Comfort Systems USA, Inc. 401(k) Plan of our report dated June 25, 2010, related to the financial statements and supplemental schedules of the Comfort Systems USA, Inc. 401(k) Plan as of December 31, 2009 and 2008, and for the year ended December 31, 2009 included in this Annual Report on Form 11-K.

/s/ UHY LLP

Houston, Texas June 25, 2010