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FEDERAL SIGNAL CORP /DE/  
Form 11-K  
June 30, 2003

Securities and Exchange Commission  
Washington, D.C. 20549  
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Form 11-K

Annual Report Pursuant to Section 15 (d) of the Securities Exchange Act  
of 1934  
For the fiscal year ended December 31, 2002

OR

Transition Report Pursuant to Section 15 (d) of the Securities Exchange  
Act of 1934

Commission file number 1-6003

Federal Signal Corporation 401(K) Retirement Plan (Full  
title of plans and address of plans if different from that of the issuer  
named below)

Federal Signal Corporation  
1415 West 22nd Street, Suite 1100  
Oak Brook, Illinois 60523  
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(Name of issuer of the securities held pursuant to the  
plans and the address of its principal executive office)

Required Information  
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Item 4

In lieu of the financial statements required by Items 1-3, the Plan is submitting financial statements prepared in accordance with the financial reporting requirements of ERISA for the years ended December 31, 2002 and 2001 and December 30, 2001.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the

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Plan Administrative Committee has duly caused this annual report to be signed on its behalf by the undersigned hereunto duly authorized.

Date: June 30, 2003

FEDERAL SIGNAL CORPORATION  
401(K) RETIREMENT PLAN

By: /s/ Joseph J. Ross  
-----  
Joseph J. Ross  
Plan Administrative Committee

By: /s/ Kim A. Wehrenberg  
-----  
Kim A Wehrenberg  
Plan Administrative Committee

By: /s/ Paul J. Wittig  
-----  
Paul J. Wittig  
Plan Administrative Committee

FEDERAL SIGNAL CORPORATION  
401(K) RETIREMENT PLAN

### FINANCIAL STATEMENTS

DECEMBER 31, 2002 AND 2001,  
AND DECEMBER 30, 2001

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Supplemental Schedule:

Schedule H, Line 4i - Schedule of Assets Held  
for Investment Purposes, December 31, 2002

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INDEPENDENT AUDITOR'S REPORT

Plan Administrator  
Federal Signal Corporation  
401(k) Retirement Plan

We have audited the accompanying statement of net assets available for benefits of Federal Signal Corporation 401(k) Retirement Plan as of December 31, 2002 and 2001, and December 30, 2001, and the related statement of changes in net assets available for the benefits for the year ended December 31, 2002, the one day ended December 31, 2001, and the year ended December 30, 2001. 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 U.S. generally accepted auditing standards. 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, 2002 and 2001, and December 30, 2001, and the changes in net assets available for benefits for the year ended December 31, 2002, the one day ended December 31, 2001, and the year ended December 30, 2001, in conformity with U.S. generally accepted accounting principles.

Our audits were conducted for the purpose of forming an opinion on the basic financial statements taken as a whole. The accompanying supplemental schedule of assets held for investment purposes at year end is presented for the purposes of additional analysis and is not a required part of the basic financial statements but is 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. The supplemental schedule has been subjected to the auditing procedures applied in the audits of the basic financial statements and, in our opinion, is fairly stated in all material respects in relation to the basic financial statements taken as a whole.

PHILIP ROOTBERG & COMPANY, LLP

Chicago, Illinois  
June 6, 2003

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FEDERAL SIGNAL CORPORATION  
401(K) RETIREMENT PLAN  
STATEMENT OF NET ASSETS AVAILABLE FOR BENEFITS

Assets	December 31, 2002	December 31, 2001	December 30, 2001
	-----	-----	-----
Contributions receivable from:			
Federal Signal Corporation	\$ 4,471,714	\$ 4,227,198	\$ 4,227,198
Participants	803,498	810,813	810,813
Dividends and interest receivable	-	-	497,036
Investments at fair value:			
Vanguard Wellington Fund	14,483,522	14,791,764	14,840,620
Vanguard Explorer Fund	7,229,626	8,805,379	8,888,227
Vanguard Index 500 Portfolio	31,163,151	40,100,536	40,509,419
Vanguard Primecap Fund	28,008,881	37,497,010	37,872,908
Vanguard Retirement Savings Trust	49,537,397	44,955,583	44,742,395
Federal Signal Corporation common stock	28,672,576	32,432,843	33,127,416
Vanguard International Growth Fund	921,972	1,046,317	1,040,741
Vanguard Total Bond Market Index Fund	3,687,088	1,760,428	1,746,012
Participant Loan Fund	4,796,755	4,997,564	4,973,494
	-----	-----	-----
Net Assets Available for Benefits	\$173,776,180	\$191,425,435	\$193,276,279
	=====	=====	=====

See accompanying notes to financial statements

FEDERAL SIGNAL CORPORATION  
401(K) RETIREMENT PLAN  
STATEMENT OF CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS

Additions	Year Ended December 31, 2002	One Day Ended December 31, 2001	Year Ended December 30, 2001
	-----	-----	-----
Contributions from employer	\$ 5,631,913	\$ -	\$ 5,484,759
Contributions from participants	11,809,228	-	12,022,512
Transfer of assets from plan mergers	-	-	446,006
Interest and dividends	4,932,726	6,852	6,184,099
Net realized and unrealized gains			

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(losses) in fair value of investments:			
Mutual funds	(23,083,082)	(1,201,292)	(12,033,025)
Common stock	(3,685,323)	( 654,690)	4,854,474
	-----	-----	-----
	(4,394,538)	(1,849,130)	16,958,825
	-----	-----	-----
Deductions			
Withdrawals by participants	(13,235,795)	( 1,714)	(11,166,019)
Other	( 18,922)	-	( 20,990)
	-----	-----	-----
	(13,254,717)	( 1,714)	(11,187,009)
	-----	-----	-----
Net Additions (Deductions)	(17,649,255)	(1,850,844)	5,771,816
Net Assets Available for Benefits - Beginning of Period	191,425,435	193,276,279	187,504,463
	-----	-----	-----
Net Assets Available for Benefits - End of Period	\$173,776,180	\$191,425,435	\$193,276,279
	=====	=====	=====

See accompanying notes to financial statements

FEDERAL SIGNAL CORPORATION  
401(K) RETIREMENT PLAN  
NOTES TO FINANCIAL STATEMENTS  
December 31, 2002 and 2001, and December 30, 2001

1 - Significant Accounting Policies

Basis of Accounting - The accompanying financial statements are prepared on the accrual basis of accounting.

Estimates - The preparation of financial statements in conformity with U.S. generally accepted accounting principles requires the plan administrator to make estimates and assumptions that affect certain reported amounts and disclosures. Accordingly, actual results may differ from those estimates.

Valuation of Investments - Shares of registered investment companies are valued at quoted market prices which represent the net asset value of shares held by the Federal Signal Corporation 401(k) Retirement Plan ("Plan"). Values for Federal Signal Corporation ("Company") common stock are based on the December 31, 2002 and 2001, and December 30, 2001, closing prices.

Accounting Method - Security transactions are accounted for on the date securities are purchased or sold (trade date). Dividend income is recorded on the ex-dividend date. Interest income is recognized when earned. Net realized and unrealized appreciation is recorded in the accompanying financial statements as net realized and unrealized gains (losses) in fair

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value of investments. Contributions are recognized based on payroll dates and accrued if applicable.

Fees - Investment advisory fees for portfolio management of Vanguard Funds are paid directly from fund earnings and will not reduce assets of the Plan. Purchase fees, if applicable, are paid by the participants investing in those funds which are subject to such fees.

### 2 - Description of Plan

The following description of the Plan provides only general information. Participants should refer to the Plan agreement for a more complete description of the Plan's provisions.

General - The Plan is a defined contribution plan covering a majority of the Company's employees who have three months of service. It is subject to the provisions of the Employee Retirement Income Security Act of 1974 ("ERISA"). On April 1, 1994, the Plan sponsor adopted the Vanguard Prototype 401(k) Savings Plan. On January 1, 2002, the Plan sponsor restated the Plan by adopting the Vanguard Qualified Retirement Plan and Trust Defined Contribution Basic Plan Document 01. The Plan is sponsored by the Company.

Contributions - In 2001, participants at most divisions were able to contribute up to 15% of pretax annual compensation, as defined in the Plan, and after-tax contributions of up to 6% of compensation, limited to a maximum employer and employee contribution of 23% as defined in the Plan. Commencing January 1, 2002, participants at most divisions can contribute up to 40% of pretax annual compensation, as defined in the Plan, and after tax contributions of up to 6%. Participants may also transfer amounts representing distributions from other qualified defined benefit or contribution plans. Company contributions are based on a percentage of employee contributions or as a discretionary amount based on eligible employee compensation and/or hours/months worked.

Effective June 1, 2002, the Plan was amended to add an employee stock ownership feature wherein all employer contributions are invested in Company stock. However, the participants are allowed to transfer their funds out of Company stock at any time. The amendment also provides for the participants to have the option of receiving Company stock dividends in cash instead of having the dividends automatically reinvested in the Plan.

Participant Accounts - Each participant's account is credited with the participant's contribution and allocations of (a) the Company's contribution and (b) plan earnings and is charged with an allocation of investment management fees and, for terminated employees, administrative expenses. Allocations are based on participant earnings or account balances, as defined. Forfeited balances of terminated participants' nonvested accounts are used to reduce future Company contributions depending on the division. 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 vested in their contributions plus actual earnings thereon. Vesting in the Company's matching and discretionary contribution portion of their accounts plus actual earnings thereon is based on years of continuous service. A participant is 100% vested after three years of credited service, except for the participants from the Emergency One division, who are immediately vested in the Company's discretionary

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contribution. Commencing July 1, 2002, participants are immediately vested in the dividends from Company stock that were paid to the Plan and reinvested in Company stock at the participant's election.

Investment Options - Upon enrollment in the Plan, a participant may direct employee contributions in 5% increments in a variety of investment choices at Vanguard Fiduciary Trust Company ("Vanguard") including the Company's common stock. Participants may change their investment by calling Vanguard. Commencing July 1, 2002, all Company contributions are invested in Company stock. The participants have the option of transferring balances from Company stock to other investment choices without restriction.

Participant Notes Receivable - Participants may borrow from their own contributions a minimum of \$1,000 up to a maximum equal to the lesser of \$50,000 or 50% of their account balance. Loan transactions are treated as a transfer to (from) the investment fund from (to) the participant loan fund. Loans are required to be repaid within five years, with the exception that a loan which is used to acquire a principal residence may be repaid within ten years. The loans are secured by the balance in the participant's account and bear interest at a rate of prime plus one percent. Principal and interest are paid ratably through payroll deductions.

Payment of Benefits - Participants are eligible to receive the vested portion of their plan account upon retirement, termination of employment, or total and permanent disability. Payment will generally be made in a lump sum.

Forfeited Accounts - As of December 31, 2002 and 2001, and December 30, 2001, forfeited nonvested accounts totaled \$39,308, \$42,889 and \$43,322, respectively. These accounts are used to reduce future employer contributions. Also, during the years ended December 31, 2002 and December 30, 2001, employer contributions were reduced by \$42,889 and \$38,062, respectively, from forfeited nonvested accounts.

### 3 - Non-Participant-Directed Investments

In accordance with the adoption of Statement of Position 99-3, "Accounting for and Reporting of Certain Defined Contribution Plan Investments and Other Disclosure Matters," the following information about net assets and the significant components of changes in net assets available for benefits relating to non-participant-directed investments is being disclosed:

	December 31, 2002	December 31, 2001	December 30, 2001
Net Assets:	-----	-----	-----
Contribution receivable from Federal Signal Corporation	\$ -	\$1,917,434	\$1,917,434
Dividend receivable Federal Signal Corporation common stock	-	-	82,126
	-	9,943,315	10,062,109
	-----	-----	-----
	\$ -	\$11,860,749	\$12,061,669
	=====	=====	=====

One Day

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	Year Ended December 31, 2002 -----	Ended December 31, 2001 -----	Year Ended December 30, 2001 -----
Changes in Net Assets:			
Contributions from employer	\$ 213,192	\$ -	\$ 2,637,013
Interest and dividends	89,178	-	244,012
Net realized and unrealized gains (losses)	510,981	( 200,920)	1,422,373
Withdrawals by participants	( 877,033)	-	(1,022,056)
Reclassified to participant-directed investments	(11,797,067)	-	(1,381,451)
	-----	-----	-----
Net Additions (Deductions)	\$(11,860,749)	\$( 200,920)	\$ 1,899,891
	=====	=====	=====

4 - Related Party Transactions

Substantially all assets of the Plan are held in trust by Vanguard, trustee for the Plan. Administrative and trustee fees in the amount of \$167,743 and \$103,810, respectively, were paid during the years ended December 31, 2002 and December 30, 2001, by the Company.

The Plan has no reportable transactions with nonexempt parties-in-interest as defined by the Department of Labor for the year ended December 31, 2002, the one day ended December 31, 2001, and the year ended December 30, 2001.

5 - Plan Merger

The Company purchased the Dico Corporation in 1994 and, as a result of the acquisition, the Dico Corporation 401(k) Plan ("Dico Plan") was effectively merged into the Plan on December 31, 1994. The Dico Plan assets consisted of insurance contracts that expired in 2001 and participant loans. Nationwide Insurance Company administered the insurance contracts, participant loans and participant accounts through October 16, 2001, at which time the assets were transferred to the Plan's trust. On the date of the transfer, the net assets of the Dico Plan were valued at \$446,006.

6 - Income Tax Status

The Internal Revenue Service ("IRS") issued a favorable opinion letter dated September 7, 1994, for the Vanguard Prototype 401(k) Savings Plan, which was adopted by the Plan sponsor on April 1, 1994. The IRS issued a favorable opinion letter dated August 22, 2001, for the Vanguard Qualified Retirement Plan and Trust Defined Contribution Basic Plan Document 01, which was adopted by the Plan sponsor on January 1, 2002. The IRS letters state that the prototype plans are acceptable under the applicable sections of the Internal Revenue Code ("IRC"). The IRS issued favorable determination letters dated July 31, 1996, and April 1, 2003, which state that the Plan and related trust are designed in accordance with applicable sections of the IRC.

7 - Plan Termination

The Company has the right under the Plan to discontinue its contributions at any time and to terminate the Plan subject to the provisions of ERISA. In the event of Plan termination, participants will become 100% vested in their accounts. The Company has not expressed any intent to terminate the Plan.



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However, effective April 1, 2003, the Company has discontinued the Company contributions for the ClappDico division employees.

SUPPLEMENTAL SCHEDULE

FEDERAL SIGNAL CORPORATION 401(K) RETIREMENT PLAN  
 SCHEDULE H, LINE 4i - SCHEDULE OF ASSETS HELD  
 FOR INVESTMENT PURPOSES  
 December 31, 2002

Schedule 1

EIN: 36-1063330

PN: 003

(a)	(b) Identity of Issue	(c) Description of Investment	(d) Cost	(e) Current Value
*	Vanguard Wellington Fund	Registered Investment Company	\$ 16,082,240	\$ 14,483,520
*	Vanguard Explorer Fund	Registered Investment Company	9,434,994	7,229,620
*	Vanguard Index 500 Portfolio	Registered Investment Company	33,180,526	31,163,150
*	Vanguard Primecap Fund	Registered Investment Company	33,562,089	28,008,880
*	Vanguard Retirement Savings Trust	Common/Collective Trust	49,537,397	49,537,390
*	Federal Signal Corporation Common Stock	Common Stock	29,516,008	28,672,570
*	Vanguard International Growth Fund	Registered Investment Company	1,358,528	921,970
*	Vanguard Total Bond Market Index Fund	Registered Investment Company	3,597,555	3,687,080
*	Participant Loan Fund	Interest at Rates From 5.25% to 10.5%	-	4,796,750

\* A party-in-interest as defined by ERISA.