

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM S-8**REGISTRATION STATEMENT
UNDER
THE SECURITIES ACT OF 1933****FLUOR CORPORATION**

(Exact Name of Registrant as Specified in Its Charter)

Delaware
(State or Other Jurisdiction of
Incorporation or Organization)**6700 LAS COLINAS BOULEVARD
IRVING, TEXAS 75039**
(Address of Principal Executive Offices Including Zip Code)**33-0927079**
(I.R.S. Employer
Identification No.)**FLUOR CORPORATION EMPLOYEES' SAVINGS INVESTMENT PLAN**
(Full Title of the Plan)**Carlos M. Hernandez, Esq.**
Chief Legal Officer and Secretary
Fluor Corporation
6700 Las Colinas Boulevard
Irving, Texas 75039
(469) 398-7000
(Name and Address of Agent For Service)**(469) 398-7000**
(Telephone Number, Including Area Code, of Agent for Service)

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 "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer ☒Accelerated filer ☐Non-accelerated filer ☐ (Do not check if a smaller reporting company)Smaller reporting company ☐**CALCULATION OF REGISTRATION FEE**

Title of Securities to be Registered(1)	Proposed Maximum Aggregate Offering Price(2)	Amount of Registration Fee
Common Stock, \$0.01 par value per share	\$ 2,000,000,000	\$ 142,600.00

- (1) Pursuant to Rule 416(c) under the Securities Act of 1933, as amended (the "Securities Act"), this Registration Statement also covers an indeterminate amount of interests to be offered or sold pursuant to the Fluor Corporation Employees' Savings Investment Plan. In addition, pursuant to Rule 416(a) under the Securities Act, this Registration Statement covers any additional shares of Common Stock that may be offered under the Fluor Corporation Employees' Savings Investment Plan as a result of any stock split, stock dividend or similar transactions effected without receipt of consideration which results in an increase in the number of shares of Common Stock outstanding.

- (2) Estimated solely for the purpose of calculating the registration fee in accordance with Rule 457(o) under the Securities Act.

INTRODUCTION

This Registration Statement on Form S-8 is filed by Fluor Corporation, a Delaware corporation (the “Company” or the “Registrant”), relating to \$2,000,000,000 of the Company’s common stock, par value \$0.01 per share (the “Common Stock”), to be offered and sold under the Fluor Corporation Employees’ Savings Investment Plan (the “Plan”).

This Registration Statement on Form S-8 is filed by the Plan with respect to an indeterminate amount of interests in the Plan.

PART I

INFORMATION REQUIRED IN THE SECTION 10(a) PROSPECTUS

The information required by Part I and to be contained in the Section 10(a) prospectus is omitted from this Registration Statement in accordance with Rule 428 of the Securities Act of 1933, as amended (the “Securities Act”), and the Note to Part I of Form S-8.

PART II

INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

Item 3. Incorporation of Certain Documents by Reference

The following documents, previously filed by the Company with the Securities and Exchange Commission (the “Commission”) pursuant to the Securities Exchange Act of 1934, as amended (the “Exchange Act”), are incorporated by reference into this Registration Statement:

- (1) The Company’s latest Annual Report on Form 10-K filed pursuant to Sections 13(a) or 15(d) of the Exchange Act or latest prospectus filed pursuant to Rule 424(b) under the Securities Act that contains audited financial statements for the Company’s latest fiscal year for which such statements have been filed;
- (2) All other reports filed pursuant to Section 13(a) or 15(d) of the Exchange Act since the end of the fiscal year covered by the Company’s latest Annual Report or prospectus referred to in (1) above;
- (3) The description of the Company’s Common Stock contained in the Registration Statement on Form 10-12B, as filed with the Commission on September 20, 2000 under Section 12(b) of the Exchange Act, together with any amendments or reports filed for the purposes of updating such description; and
- (4) The most recent Annual Report on Form 11-K filed by the Plan with respect to the Plan’s most recently completed fiscal year.

In addition, all documents subsequently filed by the Company or the Plan pursuant to Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act prior to the filing of a post-effective amendment to this Registration Statement which indicates that all securities offered hereby have been sold or which deregisters all such securities then remaining unsold, shall be deemed to be incorporated by reference in this Registration Statement and made part hereof from their respective dates of filing.

Any statement contained herein or in a document incorporated by reference in this Registration Statement shall be deemed to be modified or superseded for purposes of this Registration Statement to the extent that a statement contained in this Registration Statement or in any subsequently filed document that also is incorporated by reference in this Registration Statement modifies or supersedes such statement. Any such statement so modified or superseded shall not be deemed, except as so modified or superseded, to constitute a part of this Registration Statement.

The Company's Exchange Act file number with the Commission is 001-16129.

Item 4. Description of Securities

Not applicable.

Item 5. Interests of Named Experts and Counsel

Not applicable.

Item 6. Indemnification of Directors and Officers

Section 145 of the Delaware General Corporation Law (the "DGCL") provides that a corporation may indemnify its directors and officers, as well as other employees and individuals, against expenses (including attorneys' fees), judgments, fines and amounts paid in settlement in connection with specified actions, suits or proceedings, whether civil, criminal, administrative or investigative (other than an action by or in the right of the corporation — a "derivative action"), if they acted in good faith and in a manner they reasonably believed to be in or not opposed to the best interests of the corporation, and, with respect to any criminal action or proceeding, had no reasonable cause to believe their conduct was unlawful. A similar standard is applicable in the case of derivative actions, except that indemnification only extends to expenses (including attorneys' fees) incurred in connection with the defense or settlement of such actions, and the statute requires court approval before there can be any indemnification in which the person seeking indemnification has been found liable to the corporation. The statute provides that it is not exclusive of other indemnification that may be granted by a corporation's bylaws, disinterested director vote, stockholder vote, agreement or otherwise.

Section 102(b)(7) of the DGCL permits a corporation to provide in its certificate of incorporation that a director of the corporation shall not be personally liable to the corporation or its stockholders for monetary damages for breach of fiduciary duty as a director, except for liability for (i) any breach of the director's duty of loyalty to the corporation or its stockholders, (ii) acts or omissions not in good faith or which involve intentional misconduct or a knowing violation of law, (iii) payments of unlawful dividends or unlawful stock repurchases or redemptions, or (iv) any transaction from which the director derived an improper personal benefit.

Article Fifteenth of the Company's Amended and Restated Certificate of Incorporation provides that, to the full extent that the DGCL, as it now exists or may hereafter be amended, permits the limitation or elimination of the liability of directors, a director of the Company shall not be liable to the Company or its stockholders for monetary damages for breach of fiduciary duty as a director. Any amendment to or repeal of such Article Fifteenth shall not adversely affect any right or protection of a director of the Company for or with respect to any acts or omissions of such director occurring prior to such amendment or repeal.

Article Sixteenth of the Company's Amended and Restated Certificate of Incorporation provides that the Company may, by action of its Board of Directors, provide indemnification to its employees and agents with the same scope and effect as the foregoing indemnification of directors.

In addition, the Company has entered into an indemnification agreement with each of its directors and executive officers. The agreement confirms the obligations of the Company to indemnify the indemnified parties to the fullest extent authorized by the DGCL. The agreement also provides that the Company will advance, if requested by an indemnified person, any and all expenses incurred in connection with a proceeding, subject to reimbursement by the indemnified person should a final judicial determination be made that indemnification is not available under applicable law. The Company further agrees that its obligations under the agreement continue after the indemnified party is no longer serving the Company with respect to claims based on the indemnified party's service at the Company.

Item 7. Exemption from Registration Claimed

Not applicable.

Item 8. Exhibits

<u>Exhibit No.</u>	<u>Description</u>
4.1	Amended and Restated Certificate of Incorporation, incorporated by reference to Exhibit 3.1 of the Registrant's Current Report on Form 8-K filed on May 9, 2008 (File No. 001-16129)
4.2	Amended and Restated Bylaws of the Registrant, incorporated by reference to Exhibit 3.2 of the Registrant's Current Report on Form 8-K filed on February 9, 2010 (File No. 001-16129)
5.1	Internal Revenue Service determination letter dated July 11, 2003 relating to the Fluor Corporation Salaried Employees' Savings Investment Plan,* incorporated by reference to Exhibit 5.1 of the Registrant's Registration Statement on Form S-8 filed on November 10, 2004 (File No. 333-120372)
5.2	Internal Revenue Service determination letter dated July 11, 2003 relating to the Fluor Daniel Craft Employees 401(k) Retirement Plan, incorporated by reference to Exhibit 5.1 of the Registrant's Registration Statement on Form S-8 filed on November 10, 2004 (File No. 333-120370)
23.1	Consent of Ernst & Young LLP, Independent Registered Public Accounting Firm
24.1	Power of Attorney (contained on the signature page hereto)

* The Fluor Corporation Salaried Employees' Savings Investment Plan became the Fluor Corporation Employees' Savings Investment Plan as of January 1, 2007

Item 9. Undertakings

1. The undersigned Registrant and the Plan hereby undertake:

- (a) To file, during any period in which offers or sales are being made, a post-effective amendment to this Registration Statement:

- (i) To include any prospectus required by Section 10(a)(3) of the Securities Act;
- (ii) To reflect in the prospectus any facts or events arising after the effective date of this Registration Statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20 percent change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement; and
- (iii) To include any material information with respect to the plan of distribution not previously disclosed in this Registration Statement or any material change to such information in this Registration Statement;

provided, however, that paragraphs (1)(a)(i) and (1)(a)(ii) do not apply if the information required to be included in a post-effective amendment by those paragraphs is contained in periodic reports filed with or furnished to the Commission by the Registrant pursuant to Section 13 or Section 15(d) of the Exchange Act that are incorporated by reference in this Registration Statement;

(b) That, for the purpose of determining any liability under the Securities Act, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof; and

(c) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

2. The undersigned Registrant and the Plan hereby further undertake that, for the purposes of determining any liability under the Securities Act, each filing of the Registrant's annual report pursuant to Section 13(a) or 15(d) of the Exchange Act that is incorporated by reference in this Registration Statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof.

3. Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers and controlling persons of the Registrant or the Plan pursuant to the provisions and arrangements that exist whereby the Registrant or the Plan may indemnify such persons against liabilities arising under the Securities Act, or otherwise, the Registrant and the Plan have been advised that in the opinion of the Commission such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the Registrant or the Plan of expenses incurred or paid by a director, officer or controlling person of the Registrant or the Plan in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the Registrant and the Plan will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act and will be governed by the final adjudication of such issue.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, Fluor Corporation certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Dallas, State of Texas, on July 30, 2010.

FLUOR CORPORATION

By: /s/ Carlos M. Hernandez
Carlos M. Hernandez, Esq.
Chief Legal Officer and Secretary

Pursuant to the requirements of the Securities Act of 1933, the trustees (or other persons who administer the Plan) have duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Dallas, State of Texas, on July 30, 2010.

FLUOR CORPORATION EMPLOYEES' SAVINGS INVESTMENT PLAN

By: /s/ Pauline Campos
Pauline Campos
Benefits Administrative Committee

POWERS OF ATTORNEY

Each person whose signature appears below constitutes and appoints Carlos M. Hernandez and Eric P. Helm and each of them, as his or her true and lawful attorney-in-fact and agent, with full power of substitution and resubstitution, for such person and in his or her name, place and stead, in any and all capacities, to sign any or all further amendments (including post-effective amendments) to this registration statement, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorney-in-fact and agent, full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully to all intents and purposes as he or she might or could do in person, hereby ratifying and confirming all that said attorney-in-fact and agent, or his or her substitute or substitutes, may lawfully do or cause to be done by virtue hereof. This Power of Attorney may be signed in any number of counterparts, each of which shall constitute an original and all of which, taken together, shall constitute one Power of Attorney.

Pursuant to the requirements of the Securities Act of 1933, this registration statement has been signed by the following persons in the capacities and on the dates indicated.

<u>Signature</u>	<u>Title</u>	<u>Date</u>
<u>/s/ Alan L. Boeckmann</u> Alan L. Boeckmann	Chairman of the Board of Directors and Chief Executive Officer (Principal Executive Officer)	July 30, 2010
<u>/s/ D. Michael Steuert</u> D. Michael Steuert	Senior Vice President and Chief Financial Officer (Principal Financial Officer)	July 30, 2010

Signature	Title	Date
/s/ Gary G. Smalley Gary G. Smalley	Vice President and Controller (Principal Accounting Officer)	July 30, 2010
/s/ Ilesanmi Adesida Ilesanmi Adesida	Director	July 30, 2010
/s/ Peter K. Barker Peter K. Barker	Director	July 30, 2010
/s/ Rosemary T. Berkery Rosemary T. Berkery	Director	July 30, 2010
/s/ H. Paulett Eberhart H. Paulett Eberhart	Director	July 30, 2010
/s/ Peter J. Fluor Peter J. Fluor	Director	July 30, 2010
/s/ James T. Hackett James T. Hackett	Director	July 30, 2010
/s/ Kent Kresa Kent Kresa	Director	July 30, 2010
/s/ Dean R. O'Hare Dean R. O'Hare	Director	July 30, 2010
/s/ Joseph W. Prueher Joseph W. Prueher	Director	July 30, 2010
/s/ Nader H. Sultan Nader H. Sultan	Director	July 30, 2010
/s/ Suzanne H. Woolsey Suzanne H. Woolsey	Director	July 30, 2010

EXHIBIT INDEX

Exhibit No.	Description
23.1	Consent of Ernst & Young LLP, Independent Registered Public Accounting Firm
24.1	Power of Attorney (contained on the signature page hereto)

Consent of Independent Registered Public Accounting Firm

We consent to the incorporation by reference in the Registration Statement (Form S-8) pertaining to the Fluor Corporation Employees' Savings Investment Plan of Fluor Corporation of our reports (a) dated February 25, 2010, with respect to the consolidated financial statements of Fluor Corporation, and the effectiveness of internal control over financial reporting of Fluor Corporation included in its Annual Report (Form 10-K) for the year ended December 31, 2009, and (b) dated June 25, 2010, with respect to the financial statements and schedules of the Fluor Corporation Employees' Savings Investment Plan included in the Plan's Annual Report (Form 11-K) for the year ended December 31, 2009, both filed with the Securities and Exchange Commission.

/s/ Ernst & Young LLP

Dallas, Texas
July 30, 2010
