

SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

Schedule 13G

Under the Securities Exchange Act of 1934
(Amendment No.:2)*

Name of issuer: FMC Technologies Inc

Title of Class of Securities: Common Stock

CUSIP Number: 30249U101

Date of Event Which Requires Filing of this Statement: **December 31, 2011**

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- Rule 13d-1(b)
- Rule 13d-1(c)
- Rule 13d-1(d)

*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

(Continued on the following page(s))

CUSIP No.: 30249U101

13G

1. NAME OF 01

SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

SCHEDULE 13G
Under the Securities Act of 1934

Check the following [line] if a fee is being paid with this statement N/A

Item 1(a) - Name of Issuer:

FMC Technologies Inc

Item 1(b) - Address of Issuer's Principal Executive Offices:

1803 GEARS ROAD
HOUSTON, TX 77067

Item 2(a) - Name of Person Filing:

THE VANGUARD GROUP ()

Appendix A

Pursuant to the instructions of Item 7 of Schedule 13G, Vanguard Fiduciary Trust Company ("VFTC"), a wholly-owned subsidiary of The Vanguard Group, Inc., is the beneficial owner of 335,939 shares or .14% of the Common Stock outstanding of the Company as a result of its serving as investment manager of collective trust accounts. VFTC directs the voting of these shares.

By /s/ F. William McNabb III*