Certification Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002

I, William H. Weideman, Executive Vice President and Chief Financial Officer of The Dow Chemical Company (the "Company"), certify that:

1. the Quarterly Report on Form 10-Q of the Company for the quarter ended September 30, 2013 as filed with the Securities and Exchange Commission (the "Report") fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
2. the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

/s/ WILLIAM H. WEIDEMAN

William H. Weideman
Executive Vice President and Chief Financial Officer
October 29, 2013