



**EMCORE Corporation**

Keith J. Kosco, Esq.  
Chief Legal Officer &  
Corporate Secretary  
10420 Research Road, SE  
Albuquerque, NM 87123 USA

Tel: (505) 332-5044  
Fax: (626) 293-3646  
Email: Keith\_Kosco@emcore.com  
Web: www.emcore.com

February 11, 2009

**VIA FACSIMILE AND EDGAR**

Division of Corporate Finance  
Securities and Exchange Commission  
100 F Street, N.E.  
Washington, D.C. 20549

Attention: Celia Soehner

Re: EMCORE Corporation  
Post-Effective Amendment on Form S-3 to the Registration Statement on Form S-1  
File No. 333-149860

Dear Ms. Soehner:

Pursuant to Rule 477 under the Securities Act of 1933, as amended (the "Act"), EMCORE Corporation (the "Company") respectfully requests that the Securities and Exchange Commission consent to the withdrawal of its Post-Effective Amendment on Form S-3 to the Registration Statement on Form S-1 (Registration Statement No. 333-149860) (the "Post-Effective Amendment"), filed by the Company on January 23, 2009. The Company requests this withdrawal because the filing was inadvertently filed under the EDGAR Tag "S-3/A" instead of the EDGAR Tag "POS AM". The Company will re-file the Post-Effective Amendment under the EDGAR Tag "POS AM". The Post-Effective Amendment was never declared effective and no securities were sold in connection with the Post Effective Amendment.

Please provide the Company a facsimile copy of the order consenting to the withdrawal of the Registration Statement as soon as it is available. The facsimile number of the Company is (626) 293-3646, and the facsimile number of our counsel, Tobias Knapp of Jenner & Block is (212) 909-0820. If you have any questions regarding this request for withdrawal, please contact Mr. Knapp at (212) 891-1655.

Sincerely,

EMCORE Corporation

By: s/s Keith Kosco  
Keith Kosco, Esq.  
Chief Legal Officer and Secretary

cc: Tobias L. Knapp - Jenner & Block