

MINUTES OF ANNUAL MEETING OF STOCKHOLDER
OF
BIGELOW-LIPTAK CORPORATION
Held on March 2, 1983

Pursuant to the waiver of notice which appears on the preceding page of this book of minutes, the annual meeting of the stockholder of Bigelow-Liptak Corporation was held at the principal office of the company, 21201 Civic Center Drive, Southfield, Michigan, on the 2nd day of March, 1983 at 9:30 o'clock in the forenoon, E.S.T. in lieu of being held on the second Thursday of April, as provided in Article II, Section I of the By-laws as amended.

Mr. Harry M. Stover, Chairman of the Board of the Company, presided at the meeting and Mr. Edsel G. Poe, Secretary of the Company, acted as Secretary thereof. Also present at the meeting was Mr. John Anderson, Director and President of the Company.

A. P. Green Refractories Co., a Delaware corporation, holder of all of the issued and outstanding stock of the Company, was represented at the meeting by Mr. Robert E. McIntosh, its President.

Reading of the minutes of the previous meeting of the stockholder was, upon motion, waived.

The election of the directors to serve for the ensuing year then came before the meeting. Upon vote being duly taken, the following were elected directors to serve until the next annual meeting of the stockholder and until their successors are elected:

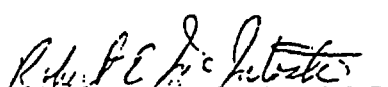
John Anderson
Howard R. Copeland
William Crum
Robert W. Jones
Robert E. McIntosh
Fred L. Metz
Harry M. Stover

There being no further business to come before the meeting, the same was, upon motion, duly adjourned.


Secretary

Minutes approved.

A. P. GREEN REFRACTORIES CO.

BY 
President

