

Updated
January 7, 1997

NORTH AMERICAN REFRACTORIES CO.

LIST OF OFFICERS

The following individuals shall remain officers of the Corporation until their successors are elected and duly qualified:

Dietrich von Knoop
Chairman of the Board
Didier-Werke AG
Abraham-Lincoln-Str. 1
D-65189, Wiesbaden
Germany
Elected to Office: July 26, 1994

Jakob A. Mosser
President & C.E.O.
North American Refractories Co.
500 Halle Building
1228 Euclid Avenue
Cleveland, OH 44115
Elected to Office: January 1, 1997

Frank W. Guise
Vice President
North American Refractories Co.
500 Halle Building
1228 Euclid Avenue
Cleveland, OH 44115
Elected to Office: July 26, 1994

Larry D. Dilley
Vice President
North American Refractories Co.
500 Halle Building
1228 Euclid Avenue,
Cleveland, OH 44115
Elected to Office: July 26, 1994

Jay S. Ehle
Vice President & Secretary
North American Refractories Co.
500 Halle Building
1228 Euclid Avenue
Cleveland, Ohio 44115
Elected to Office: July 26, 1994

David M. Wehrle
Treasurer
North American Refractories Co.
500 Halle Building
1228 Euclid Avenue
Cleveland, Ohio 44115
Elected to Office: July 26, 1994

Robert B. Nightingale
Vice President
North American Refractories Co.
500 Halle Building
1228 Euclid Avenue
Cleveland, Ohio 44115
Elected to Office: July 26, 1994

Michael Kuschinsky
Vice President
North American Refractories Co.
500 Halle Building
1228 Euclid Avenue
Cleveland, OH 44115
Elected to Office: May 31, 1996

LIST OF OFFICERS (continued)

Thomas J. Long
Vice President
North American Refractories Co.
500 Halle Building
1228 Euclid Avenue
Cleveland, OH 44115
Elected to Office: June 26, 1996

Updated
March 14, 1997

NORTH AMERICAN REFRACTORIES CO.

LIST OF DIRECTORS

The following individuals shall remain directors of the Corporation until their successors are elected and duly qualified:

Dietrich von Knoop (Director / Chairman)
Didier-Werke AG
Abraham-Lincoln-Str. 1
D-65189, Wiesbaden
Germany
Elected to Office: March 11, 1996

Timothy Ley (Director)
Didier-Werke AG
Abraham-Lincoln-Str. 1
D-65189, Wiesbaden
Germany
Elected to Office: September 18, 1996

Jakob A. Mosser (Director / President)
North American Refractories Co.
500 Halle Building
1228 Euclid Avenue
Cleveland, OH 44115
(216) 621-5200
Elected to Office: January 1, 1997

Stephen Jarislowsky (Director)
Jarislowsky, Fraser & Co.
1110 Sherbrooke Street West
Suite 2609
Montreal, Quebec
Canada H3A 1G8
Elected to Office: March 11, 1996

LIST OF DIRECTORS - (continued)

Herbert Baumgarten (Director)

Veitsch-Radex

Wien 4., Mommsengasse 35

A-1040 Wien, Postfach 143

Austria

Elected to Office: March 11, 1996

Berndt Wendl (Director)

Veitsch-Radex

Wien 4., Mommsengasse 35

A-1040 Wien, Postfach 143

Austria

Elected to Office: March 1, 1997

Walther von Wietzlow (Director)

Didier-Werke AG

Abraham-Lincoln-Str. 1

D-65189, Wiesbaden

Germany

Elected to Office: March 11, 1996