

NATIONAL CARBON COMPANY • DIVISION OF

UNION
CARBIDE

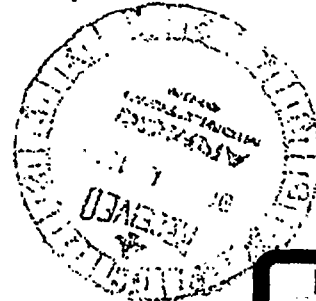
CORPORATION

230 NORTH MICHIGAN AVENUE, CHICAGO 1, ILLINOIS

September 30, 1963

Mr. C. M. Knepshield
Armco Division
Armco Steel Corporation
Middletown, Ohio

Middletown Blast Furnace
Reline - Carbon Hearth



PLAINTIFF'S
EXHIBIT

ARO-189

Dear Mr. Knepshield:

Arrangements have been made to have our Mr. L. E. Bacon, Manager of Refractory Applications, accompany Mr. Frank Smith to Middletown to discuss the above subject.

The 9th or 10th of October would be suitable dates, with the 10th the preferred date.

If one of these dates is convenient, please advise so I may inform the above gentlemen.

Thank you.

Sincerely,

Chicago Division Office

R. E. Shea
am

HERB: PLEASE LET ME KNOW AS SOON AS POSSIBLE. PLEASE
SPECIFY TIME. CKnep.

COPIES: HALEY
HOLIDAY

2954

October 9
1:30 P.M.
H.O.

PURPLE

AKE-002362

HLO

October 2, 1963

To: S. A. Bell
W. Dannecker
K. Haley
H. Holiday
C. Knepshield
N. T. Kurfiss

Subject: CARBON HEARTH - MIDDLETOWN BLAST FURNACE

A meeting to review our tentative use of carbon for the 1964 reline will be held in K. Haley's office at 1:30 P.M. on October 9, 1963. Mr. L. E. Bacon and Mr. Frank Smith of the National Carbon Company will be present at our request.

HLO/djm

H. L. Blaine



Armco Division

bcc: H. L. Osborne, Sr. Mech. Engineer
Middletown Works

October 3, 1963

National Carbon Company
Division of Union Carbide Corporation
230 North Michigan Avenue
Chicago 1, Illinois

Attention: Mr. R. E. Shea

Subject: Middletown Blast Furnace Reline-
Carbon Hearth

Gentlemen:

In reply to your letter of September 30, 1963, concerning the subject, this meeting will be on October 9 at 1:30 p.m. at our Middletown Works.

We confirmed this by telephone to your office this date to Mr. O. Black.

It will be necessary for Mr. Smith and Mr. Bacon to come to the Purchasing Department to receive passes for this meeting.

Yours truly,

ARMCO STEEL CORPORATION

Buyer
Armco Division Purchasing

C. M. Kneppshield
bem



cc: H. L. Osborne, Sr. Mechanical Engineer ✓
Middletown Works

October 22, 1963

National Carbon Company
Division of Union Carbide Corporation
230 North Michigan Avenue
Chicago 1, Illinois

Attention: Mr. R. E. Shea

Subject: Carbon Block and Brick for
Middletown Blast Furnace

Gentlemen:

Attached is a copy of our drawing PR-3243 pertaining to the subject.

Please quote us a unit delivered price to Middletown, Ohio on each shape per the above drawing. Also, show point of origin for the material.

The proposals are to have the following alternates:

- 1) Two (2) piece carbon block at tuyeres
- 2) Carbon block with opening for existing tap hole *second*
- 3) Carbon block without opening for future section tap hole
- 4) Carbon blocks for cinder notches
- 5) Bottom 22½" course of carbon replaced by graphite block.

We will require four copies of your quotation.

Yours truly,

ARMCO STEEL CORPORATION

C. M. Knapshild
Buyer
Armco Division Purchasing

C. M. Knapshild
bem

Attachment

October 17, 1963

To: Mr. C. H. Knepshield, Asst. Purchasing Agent
From: H. L. Osborne, Sr. Mechanical Engineer
Subject: CARBON BLOCK AND BRICK FOR THE MIDDLETOWN
BLAST FURNACE

Please obtain quotations for the subject carbon as indicated on drawing PR-3243. The proposals are to have the following alternates:

1. Two (2) piece carbon block at tuyeres
2. Carbon block with opening for existing tap hole
3. Carbon block without opening for future section tap hole
4. Carbon blocks for cinder notches
5. Bottom 22½" course of carbon replaced by graphite block

HLO:EVM