

Acme Coke  
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Chicago IL 60617



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Final Cooler Inspection  
Dated: 1980

*Recovered from site on Feb 13 2021*

STRUCTURAL INSPECTION  
NORTHWEST BASE OF THE FINAL COOLER

Interlake, Inc.  
Chicago Coke Plant  
Chicago, Illinois

EC-9001

By: S. Falck-Pedersen

Date: January 2, 1980

Approved: D. G. Juricic, S.E.

Approved: R. P. Winters  
Manager of Engineering  
Iron & Steel Division

### PURPOSE AND SCOPE OF INSPECTION

The inspection was made to determine thickness of the bottom three rows of plate on the northwest quadrant of the final cooler.

### METHOD OF INSPECTION

The inspection was visual in conjunction with the ultrasonic D-meter, which reads thickness in hundredths of one inch.

### PLANT CONTACTS

All information, scheduling and safety arrangements were obtained from R. Martello and A. Bailey.

### DATE OF INSPECTION AND INSPECTORS

The inspection was made by the Iron & Steel Division Engineering Inspection Department on December 19, 1980 by S. Falck-Pedersen, J. Roessing, and supervised by J. Price.

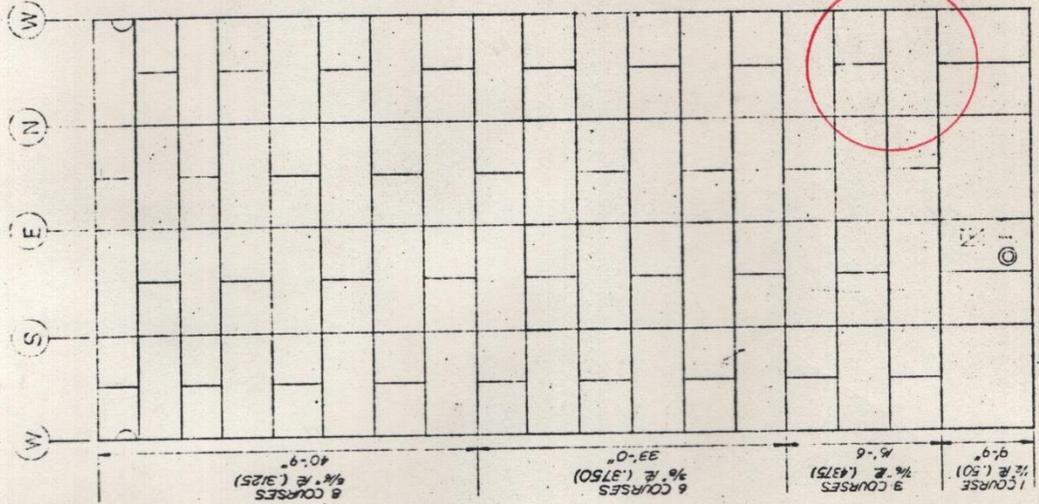
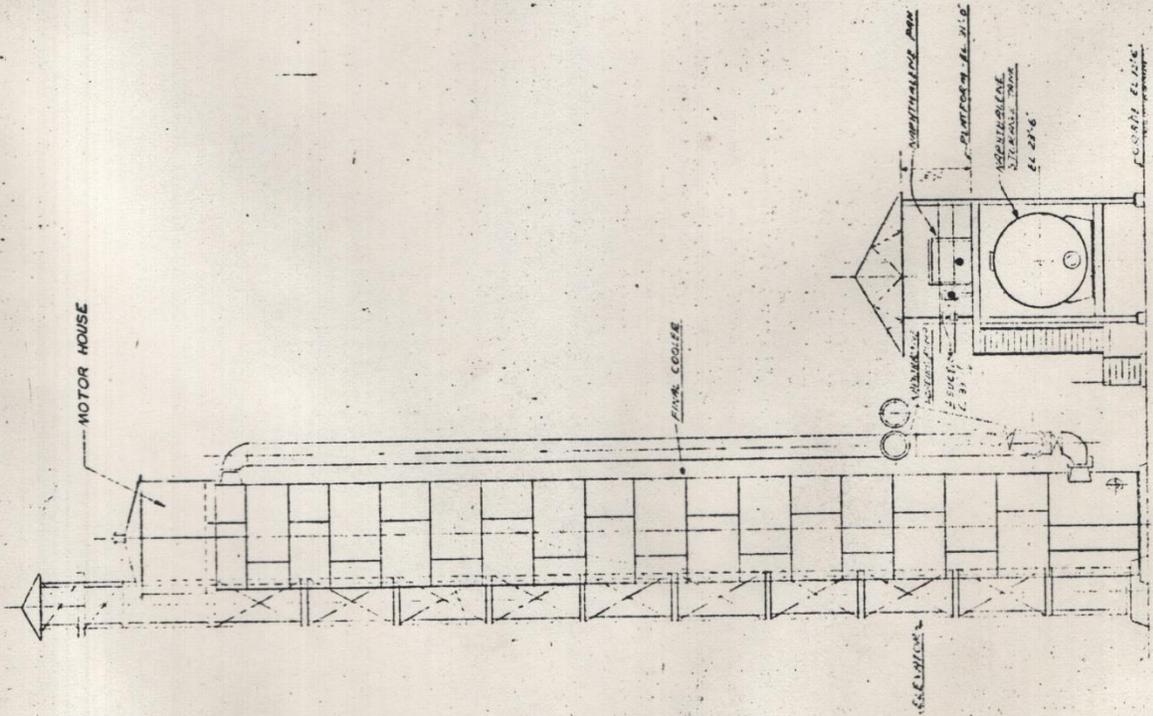
### RESULTS OF INSPECTION AND CONCLUSION

A small deteriorated area located beneath the elevator roof adjacent to the final cooler was noted visually. The surrounding plate area was ultrasonically tested and found to be 98 percent of its original thickness.

The location of the deteriorated area and the thickness of the plate nearby would indicate that moisture trapped at the junction of the final cooler and elevator roof was the cause of deterioration and not general plate wear. A sketch of the thickness reading locations and a drawing with original dimensions are attached.

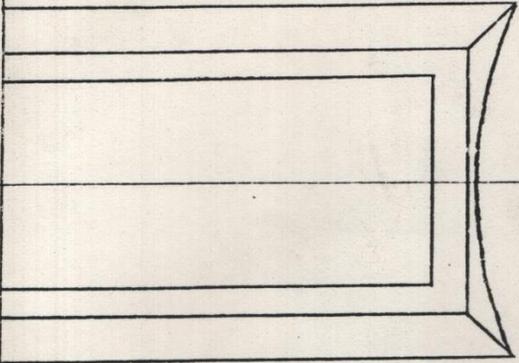
blc  
enc.

J-H  
J-I  
J-J  
K-K  
L-L  
L-M



N

W



.51

STEAM LINE

.50

.41

.42

.45

.44

.43

.45

.42

.43

.42

.49

.51

.50

.43

.50  
.51

.49

ELEVATOR ROOF

DETERIORATED  
THROUGH

2<sup>ND</sup> ROW OF PLATES

3<sup>RD</sup> ROW OF PLATES

FINAL COOLER BASE

NORTH WEST SECTION OF FINAL COOLER BASE

12-19-80