

Acme Coke
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Gas Bleeder Inspection
Dated: 1978

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**Interlake
technical
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1978 INSPECTION OF COKE
GAS BLEEDER STACK

INTERLAKE, INC.
Chicago Plant
Chicago, Illinois

By: T. J. Stahulak

Date: July 12, 1978

Approved: W. J. Hynnes, S.E.
Supervisor - Structural Design

Approved: T. R. Kinney, S.E.
Chief Engineer - Design

Purpose and Scope of Inspection

The inspection was made to determine the extent of deterioration of the shell plate of the Coke Gas Bleeder Stack Base.

Method of Inspection

The inspection was made using scrapers, wire brushes, and an ultrasonic thickness tester. Thickness readings were taken on the northeast, northwest, southeast, and southwest elevations.

Plant Contact and Information

All plant information was obtained from J. Lee of the Chicago Coke Plant.

Date of Inspection and Inspectors

The inspection was made on June 19, 26, 27, 28 and July 3, 1978 by T. J. Stahulak, P. J. Seavers, T. O. Gerringer, E. Widule and T. Benedict and supervised by E. J. Price of Interlake Technical Center.

Results of Inspection and Conclusion

50% of the ignition system gas line hangers are badly deteriorated and should be replaced. 30% of the access ladder bolts are loose and should be tightened.

There are 20 areas on the "A" section and 58 areas on the "B" section of the stack that are 50-90% deteriorated and should be patched with a 3/8" plate patch. The original thickness was 3/8".

The above items should be corrected as soon as possible. Other conditions should be corrected during normal maintenance.

Conditions Noted During the Inspection

(Ref. Dwg. C-022I)

- Item 1 - There is heavy rust pack on the access ladder. Remove rust, prime and paint.
- Item 2 - There is heavy rust pack on the first and second platform. Remove rust prime and paint.
- Item 3 - All of the kick plates on the first and second platform are badly rusted. Replace kick plates.
- Item 4 - The 2" Ignition System Gas Line is badly rust packed. Remove rust, prime and paint.

- Item 5 - 50% of the Ignition system gas line hangers are badly deteriorated. Replace hangers.
- Item 6 - 30% of the access ladder bolts are loose. Tighten loose bolts.
- Item 7 - There are loose and exposed wires at the igniter head. Properly enclose exposed and secure loose wires.
- Item 8 - The ladder safety cage is rusted through at the first platform. Replace all deteriorated safety cage components.
- Item 9 - There are 20 areas on the "A" section of the stack that are 50 to 90% deteriorated. Patch deteriorated areas with a 3/8" plate patch.
- Item 10 - There are 58 areas on the "B" section of the stack that are 50 to 90% deteriorated. Patch deteriorated areas with a 3/8" plate patch.

