

Anniston, Alabama

Messrs: W. K. Belin ✓  
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March 19, 1954

Mr. J. R. Gould

Anniston, Alabama

Biphenyl Reaction Pot Failures

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B4-11  
File  
Biphenyl

During a recent telephone conversation with Mr. Paul Scheuring of the Emerson-Scheuring Tank and Manufacturing Company, Indianapolis, Indiana, I mentioned to Mr. Scheuring the trouble we were experiencing with biphenyl reaction pot failures and particularly our inability to weld in repair sections due to excessive cracking. Mr. Scheuring stated that in view of his limited knowledge of our biphenyl operations he could only make a wild guess as to the cause of our trouble and that would be excessive sulfur pickup. He informed me that high nickel alloys were very sensitive to sulfur and that they had to discontinue the use of fuel oil in their heat treating process and go to sulfur scrubbed gas, due to the sulfur pickup in heat treating.

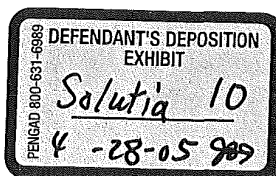
The thought occurred to me that possibly the Woodward or Enjay benzol that has been used for the past few years could have had an excessively high sulfur content.

One other thought is lead. As you probably know we purchase St. Joseph Chemical Grade pig lead for use in the pots. However, as the old acid tanks were torn down all of the lead linings were reclaimed and used almost exclusively for quite a while.

This information is passed along for what it may be worth in your studies to determine the cause of the excessive pot failures and steps to be taken to eliminate these failures.

*Handwritten:* H. L. Phillips  
H. L. Phillips

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