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Subject: Re: Class A, AB1, B, C Operation/Modes  
Posted by [positron](#) on Wed, 06 Sep 2023 04:48:23 GMT  
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I found that B1 graph in my initial post was obviously wrong.  
I have attached the correct graph, B, to this post.  
I apologize for the inconvenience.

I would like to add a quote from the RCA Radiotron Designers Handbook, 1960, written by 26 engineers in Collaboration.

This concerns Push Pull operation.

"A Class A amplifier is an amplifier in which the grid bias and alternating grid voltages are such that the plate current of the output valve or valves flows at all times. The suffix 1 indicates that grid current does not flow during any part of the input cycle."

"A very useful operating condition is the borderline case between Class A and Class AB1, that is when the plate current just reaches the point of cut-off"

Notice, each tube in the Push Pull output stage operates Class A until each output tube just reaches the point of cutoff. That means each output tube conducts the entire musical waveform.

Class A output wattages can range from small to many watts output, and with extremely low distortion, especially in the first watt out.

cheers

steve

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### File Attachments

1) [Tube Operating Curve Class B.gif](#), downloaded 56 times

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