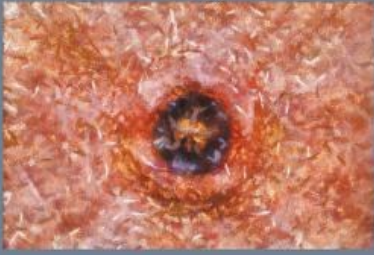


# Power Volume 56, No. 24

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POWER VOLUME 56, NO. 24



This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1922 Excerpt: ...theoretically obtainable. Loss of Vacuum in Mixed-Pressure Turbine  
We have recently placed in operation a mixed-pressure impulse turbine which uses exhaust steam from two non-condensing Corliss engines. Operation has been thoroughly satisfactory until a short time ago, when trouble developed due to loss of vacuum. On several occasions when the turbine load required more than the available supply of low-pressure steam and it was necessary for the valve gear to open up high-pressure valves, the vacuum suddenly failed. We have not been able to find any air leaks. Where should we look for trouble?  
R. N. G. When the turbine cuts over on high-pressure steam, there is a tendency to produce a light vacuum in the low-pressure header. Flow valves are usually installed for preventing such a vacuum and maintain a pressure above atmosphere in this header. If no flow valve is installed, you will probably get air in through drains open to atmosphere, if there are any. If the drains are protected by traps or check valves, air is sometimes received through the atmospheric relief valve on account of sluggish action or sticking such a valve sometimes rises to relieve back pressure and then does not close quickly enough when the pressure falls below atmosphere, thus admitting a large amount of air that destroys the vacuum. Place a compound vacuum pressure gage on the exhaust line to see how this pressure is maintained. The flow valve may need adjustment, but if none is installed, make sure that the atmospheric relief valve works freely and that low-pressure header drains are protected from air. In the absence of a flow valve, it is sometimes advisable to throttle by means of the hand valve controlling the supply of low-pressure steam to the turbine, in order to maintain the l...

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