

零出力改造后低压缸胀差超限问题分析解决 【上架时间：2023-03-30】



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详细信息

【标题】零出力改造后低压缸胀差超限问题分析解决

【Title】The problem of expansion difference exceeding limit of low pressure cylinder after zero output transformation is analyzed and solved

【摘要】针对零出力改造后低压缸胀差超限问题分析，确定高压缸后轴封内二漏高温蒸汽经过七抽管道返入低压缸内加热以及中排温度增高是两机胀差超限要因。通过关小内二漏门开度及降低再热汽温临时措施，有效控制胀差在高限值以下，确保机组安全长周期切缸运行。漏入低压缸内空气加剧鼓风损失发热、进入低压缸内蒸汽加热导致胀差增大的分析思路正确，值得借鉴。胀差峰值、达峰值所需时长以及温差所致胀差变化的定量分析清晰，值得肯定。从#1机较#2机胀差大、增大快为切入点深入排查系统差异，甄别参数真伪确定要因的探究过程值得学习。针对导致中排温度增高问题深入定量分析，指出热网加热器换热性能差问题等值得参考与借鉴。

【Abstract】in view of the zero-output transformation of the low-pressure cylinder expansion difference beyond the limit of the problem analysis, it is determined that the main reasons for the expansion difference exceeding the limit are that the second leakage high-temperature steam in the rear seal of high-pressure cylinder returns to the low-pressure cylinder for heating through the seven-draw pipe and the rising temperature of the middle row. Through the temporary measures of closing small inner two leakage door and reducing reheat steam temperature, the expansion difference can be effectively controlled below the high limit to ensure the safe long-period cylinder-cutting operation of the unit. The analysis thinking of air leakage into low-pressure cylinder aggravating blast loss and heating into low-pressure cylinder steam causing expansion difference is correct, which is worth using for reference. The Quantitative analysis of the differential expansion, the time required to reach the peak and the change in the differential expansion caused by the temperature difference are clear and commendable. From the # 1 machine than # 2 machine to expand the difference, increase quickly as the cut-in point of system differences in-depth investigation, screening parameters to determine the true and false key factors of the process is worth learning. In order to solve the problem of increasing the temperature of the middle row, the author Quantitative analysis that the problem of poor heat transfer performance of the heater in the heating network is worthy of reference.

【关键词】低压缸；零出力；胀差；峰值；鼓风损失；温差；中排温度；热网加热器

【Keywords】low pressure cylinder; zero output; expansion difference; peak value; blast loss; temperature difference; middle row temperature; heating network heater

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