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**Condenser
Performance
Improvement Through
Innovative ...**

Condenser performance
test 1. Condenser
Performance Test By
Manohar Tatwawadi

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Director TOPS 2.

05/08/19 Manohar

Tatwawadi tops 2

Purpose • Condenser tests are done to assess the thermal and hydraulic performance of the condenser in terms of tube fouling, air-in-leakage and to optimize condenser-cleaning schedules.

Steam Surface

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Condensers - ASME

8.1.1 Test codes and practices. Condensing plant is the only major item of power plant which is at present not covered by a British Standard code for thermal performance testing. For this reason, the CEGB has compiled its own test code, entitled 'Performance of surface-type steam

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condensers' — Site Test
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Code No. 3, 1981 [15].
Scope

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from ME MISC at
Metropolitan
Autonomous University.
ASME PTC 12.2-2010
[Revision of PTC

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12.2-1998 (R2007)]
Steam Surface
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Performance Test Codes
A N A

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the plant also supplies
process steam in large
quantities to local
industry. A
comprehensive test

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programme has shown that the CB/A axial surface-type steam condenser and the deaeration system easily meet the high performance requirements under the test conditions, while also satisfying environmental needs. Evaluation of the extensive ...

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**Surface condenser -
Wikipedia**
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A comprehensive evaluation of the steam surface condenser performance at Kewaunee Nuclear Plant (KNP) was undertaken by Wisconsin Public Service Corporation (WPSC) in the first half of 1984. This evaluation was prompted by the

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projected need to retube
the steam surface
condenser.

**Application of the New
ASME Performance
Test Code on Steam ...**
Performance Test Code
on Steam Surface
Condensers OBJECT
AND SCOPE The rules
and instructions
included in this Code
are for the condenser

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proper. If the scope of the test includes any or all of the auxiliary apparatus associated with the condenser,...

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The long awaited revision of PTC 12.2 presents a more practical approach to the testing of Steam Surface

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Condensers, while being updated with current condenser test technology. Whereas the previous edition was mainly focused on conducting a rigorous full-scale acceptance test, the current edition includes a less rigorous test that would also be ...

Condenser

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**performance test and
replacement tubing
material ...**

A surface condenser is a commonly used term for a water-cooled shell and tube heat exchanger installed to condense exhaust steam from a steam turbine in thermal power stations. These condensers are heat exchangers which convert steam from its

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gaseous to its liquid state at a pressure below atmospheric pressure. Where cooling water is in short supply, an air-cooled condenser is often used.

**Thermal performance
assessment of steam
surface condenser ...**

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just one of the solutions
for you to be successful.
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does not suggest that
you have astonishing
points.

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A surface condenser is a commonly used term for a water-cooled shell and tube heat exchanger installed to condense exhaust steam from a steam turbine in thermal power stations. These condensers are heat exchangers which

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convert steam from its gaseous to its liquid state at a pressure below atmospheric pressure. Where cooling water is in short supply, an air-cooled condenser is often used.

The Condenser Performance Test and Thermal Performance

...

The Performance Test

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Code on Steam Surface
Condensers underwent a
major revision in 1998
with the release of
ASME PTC 12.2 -
1998, “Performance
Test Code on Steam
Surface Condensers”.

One of the
improvements over the
previous code revisions
was the development of
a new method for
determining or

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estimating tube bundle
fouling.

**Troubleshooting
Steam Surface
Condensers**

ASME PTC 12.2-2010
(R2020) Steam Surface
Condensers. The long
awaited revision of PTC
12.2 presents a more
practical approach to the
testing of Steam Surface
Condensers, while being

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updated with current
condenser test
technology.

Steam Condenser and Feedwater Heater Design

The Performance Test
Code on Steam Surface
Condensers underwent a
major revision in 1998
with the release of
ASME PTC 12.2 -
1998, "Performance

Access Free Steam Surface Condensers Performance Test Test Code on Steam Surface Condensers”.

One of the improvements over the previous code revisions was the development of a new method for determining or estimating tube bundle fouling.

**ASME PTC 12.2-2010
(R2020) - Steam
Surface Condensers**

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During operating condition, the condenser performance is subject to change with variation in exhaust steam and CW parameters. The operating conditions of steam surface condenser are of the great influence on the power generation and the turbine cycle heat rate.

Condenser - an

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meaning, in this paper, the performance test data of TQNPC was used to evaluate the condenser performance, and to elaborate and clear these two definitions. 2. The Formulas . The thermal balance equation of condenser was: (-) 21

$$\ln\left(\frac{1}{\dots}\right) QWct t Wc t$$

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KAt. p ww p m KA t t
(1) and tt t ww. 21 (2)
w2 w1 m sw1 sw2. In. tt
t tt tt

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Troubleshooting Steam
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Progressive Thermal

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reserved Page 3

Condenser Temperature
Profile Temperature, °C

**asme-steam-surface-
condenser.pdf - ASME
PTC 12.2-2010 ...**

Abstract. A numerical
method for determining
the performance
characteristics of steam

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turbine condensers is developed and the data obtained compared with test data. It is concluded that the numerical method can be used with sufficient accuracy to determine the condenser cooling surface required and the condenser operating characteristics.

Measurements prove

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high performance of first CB/A axial ...

The design of condensers routinely allows for a normally acceptable level of air in-leakage, often considered to be 1 scfm (2.13 kg/h) per 100 MW, although a new ASME standard (ASME Performance ...

Engineering design of
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**steam turbine
condensers (Journal ...**

Steam Surface
Condenser Performance.
Based on data taken
during the condenser
performance test, this
program will calculate
the expected steam test
pressure and compare
this value with the
actual measured value to
then indicate the tube
fouling coefficient and

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the ineffective surface
as a percentage of the
total.

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