

FILE NAME: Westinghouse (WH)

DATE: 1962 Dec 27

DOC#: WH016

DOCUMENT DESCRIPTION: Memo RE Steam Service Data Letter, Field
Application of Turbine Insulation

12/27/62

memo

retyped for
legibility

WESTINGHOUSE

Date: 12/27/62
From: Lester Works - G Bldg.
Subject: Steam Service Data Letter #62-23
Index: Field Application of Turbine Insulation
Route: M.L. #8-15

There still seems to be some misunderstanding concerning the application of turbine insulation in the field. This letter supersedes Steam Supervisors' Letter #58-10.

Process specification 600729 covers the application of block and plastic insulation on unit cylinders above the 286 _____. This is our standard insulation spec for turbines to be insulated in the field. Blanket insulation is applied only when requested by the contract, since a price addition is involved. It specifies that the inner layer of insulation, next to the hot surface to be insulated, must be of water resistant thermal insulating-block, material 46601AB (Previous 7409-2) made of bonded mineral wool. The outer layer is to be of material 45110BJ (Previous 8407-1) which is a loose, fibrous plastic insulating cement.

Process specification 600433 specs the application of block insulation to piping of all sizes, and to single cylinder turbine units shipped assembled, and therefore insulated in the shop.

In general, 600433 Part I specifies block insulation for large piping (over 10") to be a single layer of 46102BS (Previous 7308) calcium silicate blocks for temperatures up to 600°F. A couple layer of 46102BB material is used to temperature range of 601° to 1050°F. Over 1050°F. a double layer consisting of material 46601AA (inner) and 46102BB (outer) shall be used.

Part II specifies molded insulation for 10" piping and smaller consisting of material 54251AH (Previous 5779) up to 1050°F. For 1051°F to 1200°F a double layer of material 46601BA (Previous 7310) shall be used.

Insulation Cement material 46110BA is to be used for all pipe insulation patching, filling and finishing.

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Plaintiff's Exhibit 7468.0
Produced 3/93

All District Offices have on file a standards book containing Lester Works Standard 920.1 through 920.5 on Insulation. They also have a Material card file and a Process Specification Book.

Quite often insulating contractors, who wish to make bids for supplying and/or installing the necessary insulation material, visit the job sites for estimating purposes. The attached information listing the current approved materials should aid our Field Service Engineers. Only insulation materials approved by Westinghouse will be permitted on Westinghouse Turbines and piping.

Headquarters Steam Service - T. W. Botham

Attachment

SSD62-23-2

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Produced 3/93