

FILE NAME: Westinghouse (WH)

DATE: 1962 Dec 27

DOC#: WH017

DOCUMENT DESCRIPTION: Memo RE Field Application of Turbine Insulation

Only insulations
approved by W'hae
will be used

1962

(Former 7309-2 appears to
be non'asb. composition)



Westinghouse

Date 12/27/62

From Lester Works, 0 Bldg.

Subject STEAM SERVICE DATA LETTER
#62-23

INDEX: Field Application of
Turbine Insulation

ROUTE: M.L. #3-15

There still seems to be some misunderstanding concerning the application of turbine insulation in the field. This letter supersedes Steam Supervisors' Letter #38-10.

Process specification 600723 covers the application of plastic insulation on unit cylinders above the 250° F. range in our standard insulation area for turbines to be installed in the field. Blanket insulation is applied only when required by the contract, since a price addition is involved. It specifies that the inner layer of insulation, part of the job to be insulated, must be of water-resistant thermal insulating material #6601AB (Previous 7300-2) made of bonded fibers. The outer layer is to be of material #6110BA (Previous 7310) which is a loose, fibrous plastic insulating cement.

Process specification 600433 covers the application of block insulation to piping of all sizes, and to small cylinders. Both are shipped assembled, and therefore insulated in the shop.

In general, 600433 Part I specifies block insulation for piping (over 10") to be a single layer of #6102BB (Previous 7300-2) calcium silicate blocks for temperatures up to 600° F. A double layer of #6102BB material is used for temperature range of 601° to 1050° F. Over 1050° F. a double layer consisting of material #6601AA (inner) and #6102BB (outer) shall be used.

Part II specifies molded insulation for 10" piping and smaller consisting of material #4251AA (Previous 5719) up to 1050° F. For 1051° F. to 1200° F. a double layer of material #6601BA (Previous 7310) shall be used.

Insulation cement material #6110BA is to be used for all pipe insulation patching, filling and finishing.

Birmingham No. 5110

PLAINTIFF'S
EXHIBIT

WH-752

28045509

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 in-
formation 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.

F. W. Bachman
Headquarters Steam Service - F. W. Bachman

Attachment

SSD 62-23-2

28045510

ENR 400-43

Process Specification 600782

Turbine Cylinder Insulation

46601AB (Previous 7309-2) (Inter). Heat insulating block made of bonded mineral wool for steam turbine and steam piping for temperatures up to 1700°F where resistance to moisture is required. On it, weathered by the dirty brown color.

Suppliers:

Baldwin-Kent-Hill - Baldwin Hill Kilo Block.

Eagle-Fisher - TV Superamp Block.

Johns-Manville - Bando HT Block.

46110BY (Previous 6407-2) (Inter). Loose fibrous heat insulating cement, composed of black mineral wool derived from alkali-silicate fibers and clay binder.

Suppliers:

Baldwin-Kent-Hill - Baldwin Hill #1 Insulating Cement.

Phillip Carey - SW 50 Insulating Cement.

Eagle-Fisher - Super 66 Plastic Insulation.

Johns-Manville - J-M 450 Insulating Cement.

Owens-Corning Fiberglas - O-C 660 Insulating Cement.

Process Specification 600435

46601AA (Previous 7309-1). On pipe over 10".

Suppliers:

Johns-Manville - Superex M Block.

Keesbey & Mattison - K&M Hy-Temp Block.

Owens-Corning Fiberglas - Kaylo 20 Block.

Phillip Carey - Carey Hi-Temp 19 Block.

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Baldwin-Khret-Hill - Enduro Hi-Temp Block

Fibreboard Paper Products Corp. - Frasco 150 Hi-Temp Block or
Fabco Precision Molded Caltemp
Block.

46102NB (Previous 7308). On piping over 10". High temperature
calcium silicate heat insulating block for steam turbines and
steam piping for temperatures up to 1200°F.

Suppliers:

Baldwin-Khret-Hill - Thermasil Block

Johns-Manville - Thermobestos Block

Owens-Corning Fiberglas - Kaylo Block

Ruberoid - Calcilite Block

Fibreboard Paper Products Corp. - Fabco Precision Molded Caltemp
Block.

Part II

4661AH (Previous 5779). Pipe size 1" through 10" using calcium
silicate heat insulation.

Suppliers:

Baldwin-Khret-Hill - Thermasil Pipe

Johns-Manville - Thermobestos Pipe

Owens-Corning Fiberglas - Kaylo Pipe

Ruberoid - Calcilite

46601BA (Previous 7310). High temperature calcium silicate heat
insulation (over 1050°F) for pipe under 10".

Suppliers:

Baldwin-Khret-Hill - Enduro Hi-Temp & Thermasil Pipe Insulation

Johns-Manville - Superex - M & Thermobestos Pipe Insulation

Owens-Corning Fiberglas - Kaylo 20 & Kaylo Pipe Insulation

Fibreboard Paper Products Corp. - Frasco 150 Hi-Temp.
Pipe Insulation or Fabco
Precision Molded Caltemp
Pipe Insulation

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46110BA (Previous 7311) Insulating Cement.

Suppliers:

Baldwin-Bret-Hill - Long Fiber Cement 150

Johns-Manville - Asbestos Cement 302

Phillip Carey Mfg. Co. - Plastic Cement 707

SSD 62-23-5

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