EDDYSTONE-STDE

From : General Order Engrg.
WIN :
Date : March 22, 1973
Subject: PACE 260
S.O. 13A4541
G.O. XT98716
HP Cylinder Insulation

G201
Elements Change Control
W. Link

cc: G201 Elements Change Control - S. Jones
A301 Product Manufacturing Engineering - W. McQuire
[redacted]
W102 Erection & Test - R. Castaldo
A302 Project Drafting - F. Serino
G201 Elements Drafting - A. Budko
A305 Product Development - B. Brown
A201 Product Manufacturing Engineering - R. Quinn

Ref: R. Quinn's letter dated March 20, 1973. Also reference M. L. Wolpert's letter dated February 26, 1973 (copy attached).

Before agreeing to Mr. Quinn's suggestion of providing blankets (which are more expensive) I would suggest an investigation be made of the block insulation that is used on the erection floor to determine if it contains any asbestos material. Mr. Wolpert's letter indicates that block and plastic insulation is available that does not have any asbestos content. If our drawings indicate that we are using block insulation that does contain asbestos I recommend that the drawings be changed to indicate the ones that are acceptable in Mr. Wolpert's letter.

J. A. Giuliucci

J. A. Giuliucci, Project Engineer
General Order Engrg.-North

ds

Attachment

Preliminary Draft.

PLAINTIFF'S EXHIBIT WH-107

Mike Petry - 4813

28002843

FORM 3504 U

From :S. T. Materials Engrg.
WW :325-4884
Date :February 26, 1973
Subject: Insulation Materials

~~A-404 GOE Projects North~~	~~S. W. Mitchell~~
A-404 GOE Projects South	J. D. Dickinson
A-403 Frame Engineering	H. M. Owens
A-101 PGS Installation Service	J. N. Goumas
G-201 HP-IP Elements	S. L. Jones
G-201 LP Elements	J. J. Hart
G-201 Valves and Hydraulic Controls	J. W. Ross
G-201 Service Project Engineering	R. W. LeGates
G-201 Service Analysis Engineering	G. F. Hyde
N-202 Small Steam Turbine Elements	J. S. Bonk
cc: G-201 Materials Engineering	J. M. Schmerling
A-203 Standards Engineering	M. Dorfman
A-404 GOE Projects	R. M. Laub
~~A-404 GOE Projects~~	~~J. H. Sturges~~
R&D Center Inorganic Materials	K. W. Grossett

Steam Turbine Division Materials Engineering has been requested to approve non-asbestos turbine insulation materials as replacements for materials that contain asbestos in order to bypass the elaborate precautions required by OSHA. I have initiated a test program and I will be evaluating the new insulation materials that we are proposing.

The Proposal for Eliminating Asbestos Insulation Materials is attached. In some cases, for a particular material specification there is a breakdown by manufacturer where some suppliers' insulation contains asbestos and others do not. In other cases where all suppliers' insulation material contains asbestos (e.g. asbestos cloth) the material specification gets a direct substitute. There are two specific materials that should be discussed further. M10130BJ wire is being replaced by M10730DX wire because it has been objected to by some customers. We can not propose a replacement for M53351DU paste at this time. This is the only asbestos material that has "continue to use" status. The manufacturer claims there is no possibility of asbestos fibers escaping into the air; however I know of no tests that substantiate his claims. We are presently seeking a replacement for this material.

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To the best of my knowledge these insulation materials are acceptable; however as the test program progresses I will keep you informed of our recommendations. We are also considering some other materials not mentioned here. Until our evaluation is complete there will be no changes made to the material cards.

Lee 4884

M. L. Wolpert

M. L. Wolpert
Materials Engrg.
Steam Turbine Division

mcl

Whittington
4100

Proposal for Eliminating Asbestos Insulation Materials

1. Process Specification 600359 (Part 4 only)

   Title: Manufacture and Application of Blanket Insulation

   Use: Cylinders, steam chests, valve bodies, valve bonnets, valve flanges, pipe flanges, and frequently used on horizontal joints when block and plastic is used on the cylinder.

   Material Status: M41414AD fiber felt insulation -

Commercial Name	Manufacturer	Asbestos Content	Status
48 Turbine Felt	Forty Eight	None*	continue to use
Temp Mat	Pittsburgh Corning	None*	continue to use
Kaowool Blanket	Babcock & Wilcox	unknown	do not use
Style 100 Blanket	Eagle Picher	unknown	do not use
Erco Mat 1300	Eastern Refractories	unknown	do not use

2. Process Specification 600433 (Parts 1 and 2)

   Title: Application of Block and Molded Insulation

   Use: Pipes.

   Material Status: M10130BJ steel wire - do not use; use M 10730DX stainless steel wire, .062 in. dia.

   M41511AP asbestos cloth - do not use; use J. P. Stevens' fiberglass cloth style 84205 finish 9383.

   M46102BB block insulation - contains asbestos, do not use; use Philip Carey's Careytemp 1500 or Keene's Thermasil Block insulation.

   M46110BA cement - contains asbestos, do not use; use Philip Carey's MW - One or Keene's Super Powerhouse insulating cement.

*Specifically stated in manufacturer's literature or letter that there is no asbestos in this insulation.

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M53351DU paste - contains asbestos, continue to use; no replacement at present

M54251AH molded insulation -

Commercial Name	Manufacturer	Asbestos Content	Status
Careytemp 1500	Philip Carey	None*	continue to use
Epitherm 1200	Eagle Picher	None*	do not use; use Keene's Thermasil
Thermo 12	Johns Manville	unknown	do not use
MF Pipe Insulation	Forty Eight	unknown	do not use
Kaylo 10 AF ASBESTOS FREE	Owens Corning	unknown	do not use

3. Process Specification 600729 (Parts 1 and 2)

Title: Application of Block and Plastic Insulation

Use: Cylinders, steam chests, valve bodies, valve bonnets, steam chest bonnets, valve flanges, and pipe flanges.

Material Status: M42331AA asbestos paper - do not use; use J. P. Stevens' fiberglass cloth style 84205 finish 9383.

M46110BJ plastic insulation -

Commercial Name	Manufacturer	Asbestos Content	Status
MW50 Insulation Cement	Philip Carey	None*	continue to use
One Plus Insul.Cement	Keene	None*	continue to use
Super 66 Plastic Insul.	Eagle Picher	unknown	do not use
460 Insulation Cement	Johns Manville	unknown	do not use

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*Specifically stated in manufacturer's literature or letter that there is no asbestos in this insulation.

M46601AB block insulation —

Commercial Name	Manufacturer	Asbestos Content	Status
Mono Block	Keene	None*	continue to use
Banroc HT	Johns Manville	None*	continue to use
Supertemp PV —	Eagle Picher	unknown	do not use

4. Process Specification 600916 (Parts 1 and 2)

Title: Application of Sprayed Asbestos Insulation

Use: Customer's option in place of PS 600433 for piping and 600729 for cylinders, steam chests, valves, flanges, and bonnets.

Material Status: M41511AP asbestos cloth — do not use; use J. P. Stevens' fiberglass coth style 84205 finish 9383.

M42331AA asbestos paper - do not use; use J. P. Stevens' fiberglass coth style 84205 finish 9383.

M46110BA cement - contains asbestos, do not use; use Philip Carey's MW - One or Keene's Super Powerhouse insulating cement.

M53351DU paste - contains asbestos, continue to use; no replacement at present. Protective cover.

M4251AQ spray insulation - non asbestos*, continue to use.

*Specifically stated in manufacturer's literature or letter that there is no asbestos in this insulation.

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