000083

| I | II | III MATERIAL & USE | IV SPECIFICATION | V ALT. MAT'L. | VI WET/DRY PROC. | VII USUAL EXP. | VIII ANNUAL QTY. USED | IX SAFETY PRECAUTIONS |
|---|---|---|---|---|---|---|---|---|
| [illegible] Bros. [illegible]-Contractor) | Install ceiling & bhd panels on vessel (no gov't. contracts at this time) | Ceiling, marine veneer panels of approx. 48"x 96"x3/4" & 36"x96"x3/4" panel of laminated micarta. Manufactured by Johns-Manville Co. | Coast Guard Specs. | None | Dry | 50 Men | Ceiling Panels 1600 | Table Saws - [illegible] with a suction [illegible]<br>Skill Saws - equipped with an [illegible] dallic vacuum [illegible]. |
| | | Bhds. Marinite panels of approx. 4'x8'x3/16". Manufactured by Johns-Manville Co. | Same As Above | None | Dry | 50 Men | Bhd Panels 3200 | Personnel required cut mat'l. are equ with "Bureau of Mi approved respirato |
| | | NOTE: 90% of all panels are cut and pre-drilled in the shop. (5) men work full time cutting and drilling. (45) men work aboard the ship. | | | | | | "Other" personnel ing in same area b no means of protec |
| ok & Fletcher ulation -Contractor) | Insulation & lagging of pipe, vent ducts, machinery & boilers. | Calcium silicate used for pipe covering and block (12% asbestos). Trade names are:<br>Calsilite<br>Thermobestos<br>Kaylo<br>Manufactured by Johns-Manville, GAF Corporation, & Owen Cornning. | Pipe Covering-Mil-1-2781 Compounded<br><br>Block - Mil-1-2819 | None | Dry (Received Pre-Shaped) | 50 Men | 150,000 # | Personnel using ban saws required to us respirators.<br><br>No precautions are during installation<br><br>Respirators used d rip-out. |
| | | Fiberious material (Unibestos) called "AMOSITE". Used for pipe covering and is manufactured by Pitts-Cornning. | Mil-1-2781 Fiberous | None | Dry (Received Pre-Shaped) | 50 Men | 1500 # | Same As Above. |
| | | Amosite Felt used for filling pads in the reactor compt. Manufactured by H. K. Porter Co. in rolled blanked style. | Electric Boat lead yd. dwgs. | None | Dry | 50 Men | 250 # | No Safety Precautio |

PAGE 1

CRMC-Motley1000-Subj-004674


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000084

| I<br>CONTR | II<br>OPERATION | III<br>MATERIAL & USE | IV<br>SPECIFICATION | V<br>ALT. MAT'L. | VI<br>WET/DRY PROC. | VII<br>USUAL EXP. | VIII<br>ANNUAL QTY. USED | IX<br>QUALITY PRECAUTIONS |
|---|---|---|---|---|---|---|---|---|
| ok &<br>tcher (cont.) | | Asbestos Cloth used to make removable covers on valves, flanges, etc. (Flame Protection) Manufactured by American Asbestos and Raybestos Manhatten. | SS-C-466, Mil Std. 769 C | None | Dry | 50 Men | 6,000 # | Same As Above (Cut with rotary ... |
| | | Cement, Hydraulic setting cement. Received in 50 # bags. Manufactured by Johns-Mansville & Eagle Picher. | Mil-e-2861 & Mil-e-2908 Type 2. | None | Wet | 50 Men | 30,000 # | No precautions used during installation.<br><br>Respirators used during rip-out. |
| | | Asbestos Paper, used for sound deading. Small % asbestos. | | None | Dry | 50 Men | 14,500 # | None |
| ...am Insula-<br>n Co. | Insulation & lagging of pipe, ...ent ducts, ma-...hinery of boilers. | Asbestos Cloth. Various types and weights, asbestos content varies from 80% to 98% depending on grade. Manufactured by American Asbestos. | NOTE: All Insulation (asbestos) when used are required by Navy, Maritime & Coast Guard. Non-asbestos materials are used where possible. | None | Dry | 20 Men | 45,000 # | Personnel using band saws required to ... respirators.<br><br>Few precautions are used during installation (respirators are available). |
| | | Asbestos Cement, high asbestos fiber content, depending on manufacturer and intended use. Manufactured by Johns-Mansville. | Same As Above | None | Wet | 20 Men | 15,000 # | Respirators used dur... rip-out. |
| | | Calcium Silicate Insulation (see Shook & Fletcher for various types) Low asbestos fiber content. Fiber is used as a binder for strength. Manufactured by Johns-Mansville, GAF Corporation, & Owen Corning. | Same As Above | None | Dry | 20 Men | 240,000 # (only 12% asbestos) | Same As Above. |



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| I. [illegible] | II OPERATION | III MATERIAL & USE | IV SPECIFICATION | V ALT. MAT'L. | VI WET/DRY PROC. | VII USUAL EXP. | VIII ANNUAL QTY. USED | IX SAFETY PRECAUTIONS |
|---|---|---|---|---|---|---|---|---|
| [illegible] ilation (cont.) | | Unibestos Insulation High asbestos fiber content but very small quanities are used. | Same As Above | None | Dry | 20 Men | 250 # | Same As Above |
| | | Asbestos Felt - Pure asbestos fiber woven together with asbestos thread or wire. Manufactured by H. K. Porter Co. | Same As Above | None | Dry | 20 Men | 3,000 # | Same As Above |
| [illegible] metal tment | Install and fabricate asbestos gaskets for piping and sheet-metal joints. | Gaskets made from the following: Sheet Packing, Style No. 60. Manufactured by Johns Mansville. Received in rolls 1/8"x4'x100'. | Fed. Spec. H.H. P-460, Navy Sym. 2160 | None | Dry | 80-120 Men Work in Shop. Approx. 2 men cut. | (12) 100' Rolls | None. All gasket mat'l is cut with a blade. |
| | | Sheet Packing, Style No. 680. Manufactured by Raybestos-Manhatten Corp. | | | | | (12) 100' Rolls | None. Same As Above. |
| hop | Used to protect men & material from flames, heat & sparks. In the shop & on platens. (Curtains and Blankets) | Cloth Asbestos. White lint free, hi-grade commerical, approx. 26 lb. Roll. Received from warehouse in rolls, cut in the shop with a blade for a specific need. Manufactured by H. K. Porter Co. | None | None | Dry | 100 Men (approx.) come in contact in ship & on platen. | 5,000 sq. yds. | None |
| nters | Cut, shape, and install protective coverings for machinery, pipe, elect. panels, etc. Asbestos boards for sound barriers, insulation, heat reduction, etc. | Flame guard 6374: 36" wide asbestos cloth, water proof, moisture proof fire proof, lint free, dust free (100 lin. yds. per roll) Used for protective covering of equipment. Manufactured by H. K. Porter Co. | None | None | Dry | 50 Men | 5,000 sq. yds. | None. Cut with a bl[illegible] |

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CRMC-Motley1000-Subj-004677

| I<br>CRAFT | II<br>OCCUPATION | III<br>MATERIAL & USE | IV<br>SPECIFICATION | V<br>ALT. MAT'L. | VI<br>WET/DRY PROC. | VII<br>USUAL EXP. | VIII<br>ANNUAL QTY. USED | IX<br>SAFETY PRECAUTIONS |
|---|---|---|---|---|---|---|---|---|
| Carpenters (cont.) | | Flame Guard-"Lagrite" 40" wide commerical grade asbestos cloth, lint free (2.39 lbs. per sq. yd.) Manufactured by American Textile Corp. | None | None | Dry | Same | 25,000 sq. yds. | None. Cut with a |
| | | Asbestos Board, compressed not graphited 60"x60" used for noise reduction, head reduction and protection from flames. Manufactured by Gulf Bolting & Gasket. Various thickness- 1/16", 1/8", 3/16", 1/4" | Mil-A-17472B Sym. 2150 | None | Dry | 25 Men | 5,000 sq. yds. | Cut in shop by a s<br>No precautions u |
| | | Asbestos cloth, plain weave, light weight, blue stripe woven in selvage. Per. SS-C-166E Form 1, Style 5 | None | None | Dry | 25 Men | 5,000 sq. yds. | Cut by a blade.<br>No precautions. |
| Welders | Protect lead panels and maintain heat. | Asbestos cloth manufactured by American Asbestos and Johns-Mansville. | None | None | Dry | 8 Men | 2,000 # | None |
| | | Packing asbestos graphite and lubricant. Johns-Mansville & John Crane manufactured. | None | None | Wet | 8 Men | 2,000 # | None |
| ling School | Used to protect men from heat, sparks and glare (Curtains & Blankets) | Cloth Asbestos, white, lint free, hi-grade commerical, approx. 265 lb. roll. Manufactured by American Asbestos Co. | None | None | Dry | 12 Men | 1,500 # | None |


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| I<br>USER | II<br>OPERATION | III<br>MATERIAL & USE | IV<br>SPECIFICATION | V<br>ALT. MAT'L. | VI<br>WET/DRY PROC. | VII<br>USUAL EXP. | VIII<br>ANNUAL QTY. USED | IX<br>SAFETY PRECAUTIONS |
|---|---|---|---|---|---|---|---|---|
| Dept. | Used to protect piping (Nuclear) during transporting from the shop to the ship for installation. | Cloth asbestos, white, lint free, hi-grade commerical, manufactured by American Asbestos. | None | None | Dry | 50 Men | 10,000 sq. yds. | None (cut with knife as needed) |
| | Piping is wrapped on the nuclear system after installation to prevent arc strikes, scratches, etc. | Flame guard 6374: 36" wide asbestos cloth, water proof, lint free, dust free, (100 lin. yds. per roll) Manufactured by H. K. Porter. | None | None | Dry | 5 Men | 10,000 Sq. Yds. | None (cut with knife as needed) |
| | Fabricate and install asbestos gaskets for pipe joints. | Gaskets made from: Sheet Packing, style No. 60. Manufactured by Johns-Mansville. Sheet Packing, Style No. 680. Manufactured by Raybestos-Manhatten Corp. | Fed. Specs. H.H. P-460, Navy Sym. 2160 | None | Dry | 6 Men | (12) 100' Rolls | None. All gasket material cut with a blades. |
| | Asbestos tape used for wrapping of pipe. | Tape, insulation thermol, woven asbestos tubular jacket enclosing felted asbestos. Gulf Bolting & Gasket | Mil-I-15349B TY-1 | None | Dry | 20 Men | (90) 100' Rolls | None |
| inists | Fabricate and install asbestos gaskets of various types & sizes. | Gasket made from sheet packing and compression boards. | | | | | | |
| | | Compressed sheet asbestos 36" to 48" wide. | Mil-A-7021B AM 1, CH 1 | None | Dry | 10 Men | (12) 100' Rolls | None |
| | | Gasket, ring type asbestos, flange Type II | Mil-A-17472 | Same | Dry | 10 Men | (10) 100' Rolls | None |
| | | Gasket, full face asbestos Type V | Mil-A-17472 | Same | Dry | 10 Men | (10) 100' Rolls | None |


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| I USER | II OPERATION | III MATERIAL & USE | IV SPECIFICATION | V ALT. MAT'L. | VI WET/DRY PRO. | VII USUAL PRO. | VIII ANNUAL QTY. USED | IX SAFETY PRECAUTIONS |
|---|---|---|---|---|---|---|---|---|
| Machinists (cont.) | Packing for valves. | Packing as follows: | | | | | | |
| | | Packing, round/asbestos & rubber woven, per H.H. P-31C, wire inserted. | | None | Wet | 20 Men | 2,000 # | None |
| | | Packing, general service/asbestos, graphite and lubricate, in loose form. All pax Style No. 1 | None | None | Wet | 20 Men | 2,000 # | None |
| | | Packing, twisted asbestos, graphited. John Crane Style 814 Stem Packing. | None | None | Wet | 10 Men | 1,000 # | None |
| | | Packing, SQ Super-Seal/ braided asbestos jacket over jacket, solvent resistant and graphite impregnated. John Crane Style 905A, Ring Type. | None | None | Wet | 10 Men | 1,000 # | None |
| Electrical Dept. | Use asbestos for protection of equipment. | Flame Guard 6374, 36" wide asbestos cloth, water proof, moisture proof, fire proof, lint free, dust free (100 lin. yds. per roll) Manufactured by H. K. Porter | None | None | Dry | 15 Men | 2,000 sq. yds. | None |
| Riggers | Cut & sew tent & covering mat'l. for the carpenters. | Flame Guard 6374. 36" wide asbestos cloth. Water proof, lint free, dust free (100 lin. yds. per roll) Manufactured by H. K. Porter. Used for protective covering of equipment & piping. Primarily in the Nuclear Systems. | None | None | Dry | 6 Men | 5,000 sq. yds. | None |

CRMC-Motley1000-Subj-004679

| I USER | II OPERATION | III MATERIAL & USE | IV SPECIFICATION | V ALT. MAT'L. | VI WET/DRY PRO. | VII USUAL EXP. | VIII ANNUAL QTY. USED | IX SAFETY PRECAUTIONS |
|---|---|---|---|---|---|---|---|---|
| Warehouses | Receipt, storage and distribution of various asbestos mat'l. | The warehouses receive and stores all asbestos mat'l. until needed by the yard crafts. No cutting of rolls or breaking of bags is accomplished in warehouse. | | | | | | NOTE: All rolls, etc. are readily in a secured condition and no safety precautions are req |
| | | Asbestos received as follows: | | | | | | |
| | | Flame Guard No. 6374 36" wide asbestos cloth, light green, water proof, fire proof, lint free, dust free. Manufactured by H.K. Porter. | | | | | 30,000 sq. yds. | |
| | | Asbestos cloth, commerical grade asbestos "lagrite". Manufactured by American Asbestos Textile Corp. | | | | | 50,000 sq. yds. | |
| | | Sheet asbestos, compressed/not graphited. Manufactured by Gulf Bolting & Gasket. | Mil-A-17472B Sym 2150 | | | | 8,000 sq. yds. | |
| | | Asbestos cloth, plain weave, light weight, blue stripe woven in selvage per SS-C-466E Form 1, Style 5 | | | | | 10,000 sq. yds. | |
| | | Sheet packing, Style No. 60. Manufactured by Johns-Mansville, received in rolls 1/8"x4' x100 | Fed. Spec. H.H. P-460 Navy Sym. 2160 | None | None | None | | |

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| I | II OPERATION | III MATERIAL & USE | IV SPECIFICATION | V ALT. MAT'L. | VI WET/DRY PRO. | VII USUAL EXP. | VIII ANNUAL QTY. USED | CAPACITY |
|---|---|---|---|---|---|---|---|---|
| ...houses ...ent.) | | Sheet Packing Style No. 680, manufactured by Raybestos-Manhatten Corp.<br><br>Asbestos Packing of various types & sizes (see No. 10 Machinery Dept.)<br><br>Tape, insulation thermal woven asbestos tubular jacket enclosing felted asbestos, manufactured by Gulf Bolting and Gasket. | Mil-1-15349B Ty-1 | | | | | |
| ar Dept. | Special Flame Guard purchased for protective wrapping and covering of nuclear components in the primary systems. | Asbestos Flame Guard Cloth, water proof, fire proof, lint free, dust free. Manufactured by H.K. Porter Co. Normally used by the carpenters for building tents, wrapping pipe, making valve covers, etc. | None | None | Dry | 50 Men | 1,500 sq. yds. | None |

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