#### **FORWARD**

This Post-Wide Asbestos Inspection/Reinspection Report was prepared by Dewberry & Davis (D&D) for the U.S. Army Corps of Engineers, Fort Worth District, and Fort Belvoir, under Contract Number DACA63-94-D-0009. The purpose of the contract was to conduct asbestos inspections/reinspections of selected buildings at Fort Belvoir, Virginia. The inspections/reinspections were conducted between 6 September, 1994 and 2 November, 1994. In each building asbestos containing materials (ACMs), were identified, located, and quantified. Relative risks were assessed, recommendations made, and cost estimates were developed for abatement.

This volume is the Fort Belvoir Asbestos Management Plan. It includes Operations and Maintenance (O&M) procedures as well as indexes and instructions on the use of the reports and the database. Also provided is background information such as certification of the inspectors and laboratories.

This volume includes the following sections:

**SECTION I** Methods of Survey: This section describes the criteria for materials to be sampled and the number of samples to be taken. Also included is a description of the procedures which were followed during sampling to provide maximum safety and minimum disruption of ACMs.

**SECTION II** Computer Generated Reports: Reports pertaining to the overall survey are contained in this section. Also provided is an index of CADD digital files by building number.

**SECTION III** Risk Assessment & Cost Estimates: The Risk Assessment algorithm is the method by which field evaluation of the condition and exposure of suspect ACMs are assigned a numerical value. These values are used to calculate an Exposure Number which allows a comparison and prioritization of abatement projects. The source of cost estimates contained in the report is discussed and a list of unit prices presented.

**SECTION IV** Operations & Maintenance (O&M) Program: The O&M Program provides practices and procedures designed to minimize exposure to asbestos fibers. When put in place, the O&M program will be the means by which Fort Belvoir can keep known ACMs in good condition and prevent or respond quickly to unintentional fiber releases.

**SECTION V** Database Users Guide: This section provides operating instructions for the Fort Belvoir asbestos database.

Individual building reports are contained in Volumes II through XIV. Each volume contains an index of buildings, abbreviation key, and legend to building diagrams. A report is provided for each

building, identified by a tab with the respective building number. The contents of the individual reports are arranged as follows:

- Initial Walk Through/Building Information Summary
- Narrative Summary
- Building Summary Report
- Building Diagrams
- Certificate of Analysis
- Homogeneous Areas/Sample Summary
- Field Assessment Forms

Each sample and its field assessment information has been entered into a database system which is provided as a part of this report. Building diagrams and text files have also been provided in the following digital format.

PRODUCT	<b>FORMAT</b>
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Narrative Summaries and Word Perfect 5.1
Management Plan Text

Sample Field Data and DbaseIII+ Program Risk Assessment Algorithm

Building Diagrams CADD DGN Files in MicroStation Version 5.0

Dewberry & Davis is pleased to have provided this service to the U.S. Army Corps of Engineers, Fort Worth District and Fort Belvoir. If you have questions or comments regarding this report, please feel free to contact Mr. Fred Eberle, D & D Project Manager at (703) 849-0375.

THIS REPORT HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF THE U.S. ARMY CORPS OF ENGINEERS, FORT WORTH DISTRICT, AND FORT BELVOIR. IT REPRESENTS AN ASSESSMENT OF THE RELATIVE HAZARD OF ASBESTOS-CONTAINING MATERIALS IN SELECTED FORT BELVOIR BUILDINGS. THE FINDINGS AND CONCLUSIONS HEREIN ARE BASED SOLELY UPON INFORMATION DEVELOPED FOLLOWING THE METHODOLOGY AND SPECIFICATIONS OF CONTRACT NO. DACA63-94-D-0009.

#### SUBMITTED BY DEWBERRY & DAVIS

18 April, 1995

#### METHODS OF SURVEY

1. General: The following methods of survey and sample survey forms for the Fort Belvoir Post-Wide Asbestos Inspection/Reinspection Survey were developed by D&D and approved by the Fort Belvoir Directorate of Public Works (DPW), Environmental & Natural Resources Division prior to the start of the field work.

Sampling at Fort Belvoir was accomplished between 6 September, 1994 and 2 November, 1994. In some cases materials were assumed to contain asbestos and not sampled. This occurred where materials, which are known to typically contain asbestos, were inaccessible or sampling would damage the material. Materials assumed to contain asbestos included fire doors, flexible connectors, transite panels, ducts, and pipes. Assumed materials are identified in the reports and located on the building diagrams using a 999 identification number.

Rated fire doors were assumed to contain asbestos. In good condition, doors containing asbestos pose little hazard to building occupants. If a fire door is damaged, or to be removed, and suspect ACM is observed, a core sample should be taken and analyzed by an accredited laboratory. Fire doors testing positive for asbestos should be removed and disposed of as asbestos-containing material. Fire doors assumed to contain asbestos are identified in the reports and located on the building diagrams using a triangle symbol.

The survey consisted of a visual inspection and sampling of suspected ACM and covered the interior, exterior, and crawl spaces and any other portion of the building that may contain ACMs. Based on the following definition of friability, the inspectors separated the suspected material into friable and non-friable ACM. Friable means any material that when dry may be crumbled, pulverized, or reduced to powder by hand pressure.

- Friable ACM The inspector shall report the quantity of asbestos in feet for the lengths of various pipe diameters and in square feet for blown-on and bulk ACM insulation. Dimensions shall be shown for boilers, heaters, piping systems and other equipment which may contain friable ACMs. The condition of the ACM shall also be reported. It shall be located by floor, room, and/or other position locator.
- Non-friable ACM The inspector shall report the types of materials and their uses; i.e., floor tiles, transite sheeting, siding materials, shingles, gaskets, and other types. The quantity of each material shall be reported by building and the exact locations shall be noted on the building diagrams. The physical condition of these materials must also be noted. Samples taken of non-friable ACM should be taken from inconspicuous places.

- 2. Bulk Samples: The number of samples drawn shall be consistent with the following for each homogeneous area identified:
  - Thermal System Insulation:
    - air cell one sample
    - mudded materials three samples
    - preformed pipe wrap three samples
    - fiberglass with any type of suspect wrapping three samples
    - packed paper three samples
    - boiler/tank insulation three samples
  - Surfacing Materials three samples
  - Miscellaneous Materials:
    - transite none- assumed
    - suspect flexible connectors none assumed
    - floor tile none- assumed
- 3. Sampling Method: In general, consideration was given to selecting a sample site where possible debris could be easily contained. This involved removing objects or covering them with six-mil plastic. Also, air flow was shut off or restricted, if possible. This involved shutting down HVAC systems or simply closing windows or doors. In all cases, building occupants were asked to vacate the room or stay a safe distance away from the sample site.

D&D inspectors employed the use of the following for sample extraction: chisels, hammers, utility knives, screwdrivers, and other tools as necessary. Power tools were not used. In addition, tools necessary for patching were also utilized.

Once the sample location is selected, and steps have been taken to minimize possible contamination, the sample can be extracted. This process varies little from sample to sample.

- At a minimum, the inspector will wear a half-face respirator equipped with HEPA cartridges during the sampling process. The inspector may also wear disposable gloves and may wear various pieces of protective clothing, depending on circumstances.
- A plastic drop bag will be hung below the sample site. This bag is gussetted and at least 12-inches deep. The inside is wetted. Any debris from the sample will fall into the bag. The bag will also be used to contain wipes from tool cleaning. It will be disposed of as contaminated ACM. This method will be used in most situations.
- The sample location will be wetted with amended water. This amended water is designed to penetrate the substance.

Assistant team members also participated in an eight-hour asbestos training program that included health and safety, respirator and personal protection selection, inspection procedures and practices, and respirator fit testing. Assistant team members always work with and under the guidance of a team leader, and have received appropriate medical examinations and fit tests.

All D&D inspectors receive a yearly medical examination as required by OSHA (29 CFR1926.56). Inspectors are respirator fit tested twice a year and inspectors and managers adhere to an established respirator program.

**6. Laboratory Certification:** D&D uses outside accredited laboratories to analyze bulk asbestos samples. This provides excellent accuracy and a measure of objectivity. The Laboratory analyzes the bulk samples using polarized light microscopy with dispersion staining.

Biospherics, Inc., 12051 Indian Creek Court, Beltsville, MD 20705 provided laboratory analysis of the Fort Belvoir asbestos bulk samples. This laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) certification #1277, and the American Industrial Hygiene Association (AIHA) certification #145.

- The material will be extracted in a gentle manner into an ANCO coin tube. This tube will be clear with a screw top lid.
- The tube will be wet-wiped, as well as the tools. This wiping will be done in a single motion and the contaminated surface rolled into the center of the wipe. The wipe will be disposed as contaminated ACM.
- The sample area will be repaired if possible. This will be accomplished by duct tape, encapsulant, spackling, or a combination of these materials.
- The sample number and location will be annotated on the building diagrams. Pictures will be taken if necessary.
- A HEPA vacuum will be used, as necessary, during the sampling and area clean-up.
- The area will be cleaned to pre-sample conditions. Sample data will be logged and contaminated materials will be properly contained.

In some situations, it will be impossible to follow the above procedures. In these situations, the safest approach will be utilized in extracting samples.

- **4. Data Collection Forms:** The following data collection forms were used during the field survey portion of the project.
  - Initial Walk Through and Building Information Summary
  - Field Assessment Form
  - Homogeneous Areas/Sample Summary

The information recorded on these field forms was then entered into a Dbase III+ spread sheet data base. Subsequent reports were generated using the Fort Belvoir Risk Assessment Algorithm.

5. Inspection Team Leader Certification: The following team leaders have received the EPA AHERA training as inspectors and management planners and are licensed in the State of Virginia.

Team Leader	Inspector License No.	Management License No.
Fred Eberle	3303-000132	3304-000039
Karen Blagburn	3303-001377	3304-000922
Fred Wingert	3303-000032	3304-000005
Andrew Eury	3303-000131	3304-000588
Tom Kuepper	3303-001728	3304-000560

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12   315   ADMIN FACILITY   85   226762.00   292354.00     13	11	1442	ADMINISTRATION			
13	12	315	ADMIN FACILITY		226762.00	292354.00
14 332 HEATING PLANT 83 217.60 324.20 15 357 LABORATORY 83 178417.20 221972.90 16 3231 AIRCRAFT HANGER 83 28298.80 35579.10 17 399 LABORATORY 83 174575.50 225244.60 18 1146 PX GARAGE 83 764.00 1083.50 19 203 BARRACKS 82 76752.00 99084.00 20 1804 POST CHAPEL 82 2201.50 3094.50 21 99 STOREHOUSE 81 940.70 1399.40 22 3066 INSTRUCTION 81 28793.50 41121.00 23 1475 ADMINISTRATION 80 61643.50 80341.50 24 701 TROOP ISSUE 80 8765.00 11405.00 25 211 MAPPING SCHOOL 80 10708.00 13899.50 26 3138 HP BOILER 79 3034.70 3819.90 27 205 INSTRUCTION 79 21604.00 28302.00 28 268 ADMINISTRATION 79 2179.00 3615.00 29 231 DINING FACILITY 79 947.00 1154.00 30 374 ADMINISTRATION 79 894.50 1158.00 31 -1962.60.2 BARRACKS 78 36860.00 45690.00 32 366 STOREHOUSE 77 240.00 450.00 33 316 ADMINISTRATIVE 77 68684.50 88366.50 34 950 MARKHAM SCHOOL 77 1136.50 1487.00 35 745 60.2 MARKHAM SCHOOL 77 136.50 1487.00 36 1195 CREDIT UNION 76 705.00 1037.50 37 1471 CLINIC 76 3270.00 4284.50 38 213 BARRACKS 76 10322.50 13282.50 39 210 BARRACKS 76 10322.50 13282.50 39 210 BARRACKS 76 1775.00 99865.00 41 190 MAINT SHOP 75 2272.50 2932.50	13	314	ADMIN FACILITY	83	4168.00	5571.00
15 357 LABORATORY 83 178417.20 221972.90 16 3231 AIRCRAFT HANGER 83 28298.80 35579.10 17 399 LABORATORY 83 174575.50 225244.60 18 1146 PX GARAGE 83 764.00 1083.50 19 203 BARRACKS 82 76752.00 99084.00 20 1804 POST CHAPEL 82 2201.50 3094.50 21 99 STOREHOUSE 81 940.70 1399.40 22 3066 INSTRUCTION 81 28793.50 41121.00 23 1475 ADMINISTRATION 80 61643.50 80341.50 24 701 TROOP ISSUE 80 8765.00 11405.00 25 211 MAPPING SCHOOL 80 10708.00 13899.50 26 3138 HP BOILER 79 3034.70 3819.90 27 205 INSTRUCTION 79 21604.00 28302.00 28 268 ADMINISTRATION 79 2179.00 3615.00 29 231 DINING FACILITY 79 947.00 1154.00 30 374 ADMINISTRATION 79 22179.00 3615.00 29 231 DINING FACILITY 79 947.00 1154.00 31 -1962-6002 BARRACKS 78 36860.00 45690.00 32 366 STOREHOUSE 77 240.00 450.00 33 316 ADMINISTRATIVE 77 68684.50 88366.50 34 950 MARKHAM SCHOOL 77 1136.50 1487.00 35 7445 COLOR BARRACKS 76 6691.00 8478.50 36 1195 CREDIT UNION 76 705.00 1037.50 37 1471 CLINIC 76 3270.00 4284.50 38 213 BARRACKS 76 10322.50 13282.50 39 210 BARRACKS 76 10322.50 13282.50 40 358 ADMINISTRATION 75 77630.00 99865.00 41 190 MAINT SHOP 75 2272.50 2932.50	14	332	HEATING PLANT			
16   3231   AIRCRAFT HANGER   83   28298.80   35579.10   17   399   LABORATORY   83   174575.50   225244.60   18   1146   PX GARAGE   83   764.00   1083.50   19   203   BARRACKS   82   76752.00   99084.00   20   1804   POST CHAPEL   82   2201.50   3094.50   21   99   STOREHOUSE   81   940.70   1399.40   22   3066   INSTRUCTION   81   28793.50   41121.00   23   1475   ADMINISTRATION   80   61643.50   80341.50   24   701   TROOP ISSUE   80   8765.00   11405.00   25   211   MAPPING SCHOOL   80   10708.00   13899.50   26   3138   HP BOILER   79   3034.70   3819.90   27   205   INSTRUCTION   79   21604.00   28302.00   28   268   ADMINISTRATION   79   2179.00   3615.00   29   231   DINING FACILITY   79   477.00   1154.00   30   374   ADMINISTRATION   79   894.50   1158.00   31   -1962.60	15	357	LABORATORY			
17 399 LABORATORY 83 174575.50 225244.60 18 1146 PX GARAGE 83 764.00 1083.50 19 203 BARRACKS 82 76752.00 99084.00 20 1804 POST CHAPEL 82 2201.50 3094.50 21 99 STOREHOUSE 81 940.70 1399.40 22 3066 INSTRUCTION 81 28793.50 41121.00 23 1475 ADMINISTRATION 80 61643.50 80341.50 24 701 TROOP ISSUE 80 8765.00 11405.00 25 211 MAPPING SCHOOL 80 10708.00 13899.50 26 3138 HP BOILER 79 3034.70 3819.90 27 205 INSTRUCTION 79 21604.00 28302.00 28 268 ADMINISTRATION 79 2179.00 3615.00 29 231 DINING FACILITY 79 947.00 1154.00 30 374 ADMINISTRATION 79 894.50 1158.00 31 1962.60 BARRACKS 78 36860.00 45690.00 32 366 STOREHOUSE 77 240.00 450.00 33 316 ADMINISTRATIVE 77 68684.50 88366.50 34 950 MARKHAM SCHOOL 77 1136.50 1487.00 35 745 66107.50 36 1195 CREDIT UNION 76 705.00 1037.50 37 1471 CLINIC 76 3270.00 4284.50 38 213 BARRACKS 76 10322.50 13282.50 39 210 BARRACKS 76 4737.50 6107.50 40 358 ADMINISTRATION 75 77630.00 99865.00 41 190 MAINT SHOP 75 2272.50 2932.50	16	3231	AIRCRAFT HANGER		28298.80	
19 203 BARRACKS 82 76752.00 99084.00 20 1804 POST CHAPEL 82 2201.50 3094.50 21 99 STOREHOUSE 81 940.70 1399.40 22 3066 INSTRUCTION 81 28793.50 41121.00 23 1475 ADMINISTRATION 80 61643.50 80341.50 24 701 TROOP ISSUE 80 8765.00 11405.00 25 211 MAPPING SCHOOL 80 10708.00 13899.50 26 3138 HP BOILER 79 3034.70 3819.90 27 205 INSTRUCTION 79 21604.00 28302.00 28 268 ADMINISTRATION 79 2179.00 3615.00 29 231 DINING FACILITY 79 947.00 1154.00 30 374 ADMINISTRATION 79 894.50 1158.00 31 -1962-Gold BARRACKS 78 36860.00 45690.00 32 366 STOREHOUSE 77 240.00 450.00 33 316 ADMINISTRATIVE 77 68684.50 88366.50 34 950 MARKHAM SCHOOL 77 1136.50 1487.00 35 745 GOLD MARKHAM SCHOOL 77 1136.50 1487.00 36 1195 CREDIT UNION 76 705.00 1037.50 37 1471 CLINIC 76 3270.00 4284.50 38 213 BARRACKS 76 10322.50 13282.50 39 210 BARRACKS 76 4737.50 6107.50 40 358 ADMINISTRATION 75 77630.00 99865.00 41 190 MAINT SHOP 75 2272.50 2932.50	17	399	LABORATORY	83	174575.50	225244.60
20	18	1146	PX GARAGE	83	764.00	1083.50
21 99 STOREHOUSE 81 940.70 1399.40 22 3066 INSTRUCTION 81 28793.50 41121.00 23 1475 ADMINISTRATION 80 61643.50 80341.50 24 701 TROOP ISSUE 80 8765.00 11405.00 25 211 MAPPING SCHOOL 80 10708.00 13899.50 26 3138 HP BOILER 79 3034.70 3819.90 27 205 INSTRUCTION 79 21604.00 28302.00 28 268 ADMINISTRATION 79 2179.00 3615.00 29 231 DINING FACILITY 79 947.00 1154.00 30 374 ADMINISTRATION 79 894.50 1158.00 31 -1962.60 BARRACKS 78 36860.00 45690.00 32 366 STOREHOUSE 77 240.00 450.00 33 316 ADMINISTRATIVE 77 68684.50 88366.50 34 950 MARKHAM SCHOOL 77 1136.50 1487.00 35 745 60 MARKHAM SCHOOL 77 1136.50 1487.00 36 1195 CREDIT UNION 76 705.00 1037.50 37 1471 CLINIC 76 3270.00 4284.50 38 213 BARRACKS 76 10322.50 13282.50 39 210 BARRACKS 76 4737.50 6107.50 40 358 ADMINISTRATION 75 77630.00 99865.00 41 190 MAINT SHOP 75 2272.50 2932.50	19	203	BARRACKS	82	76752.00	
22 3066 INSTRUCTION 81 28793.50 41121.00 23 1475 ADMINISTRATION 80 61643.50 80341.50 24 701 TROOP ISSUE 80 8765.00 11405.00 25 211 MAPPING SCHOOL 80 10708.00 13899.50 26 3138 HP BOILER 79 3034.70 3819.90 27 205 INSTRUCTION 79 21604.00 28302.00 28 268 ADMINISTRATION 79 2179.00 3615.00 29 231 DINING FACILITY 79 947.00 1154.00 30 374 ADMINISTRATION 79 894.50 1158.00 31 1962.60 BARRACKS 78 36860.00 45690.00 32 366 STOREHOUSE 77 240.00 450.00 33 316 ADMINISTRATIVE 77 68684.50 88366.50 34 950 MARKHAM SCHOOL 77 1136.50 1487.00 35 745 60 MARKHAM SCHOOL 77 1136.50 1487.00 36 1195 CREDIT UNION 76 705.00 1037.50 37 1471 CLINIC 76 3270.00 4284.50 38 213 BARRACKS 76 10322.50 13282.50 39 210 BARRACKS 76 4737.50 6107.50 40 358 ADMINISTRATION 75 77630.00 99865.00 41 190 MAINT SHOP 75 2272.50 2932.50			POST CHAPEL	82	2201.50	3094.50
23 1475 ADMINISTRATION 80 61643.50 80341.50 24 701 TROOP ISSUE 80 8765.00 11405.00 25 211 MAPPING SCHOOL 80 10708.00 13899.50 26 3138 HP BOILER 79 3034.70 3819.90 27 205 INSTRUCTION 79 21604.00 28302.00 28 268 ADMINISTRATION 79 2179.00 3615.00 29 231 DINING FACILITY 79 947.00 1154.00 30 374 ADMINISTRATION 79 894.50 1158.00 31 -1962.60 BARRACKS 78 36860.00 45690.00 32 366 STOREHOUSE 77 240.00 450.00 33 316 ADMINISTRATIVE 77 68684.50 88366.50 34 950 MARKHAM SCHOOL 77 1136.50 1487.00 35 745 60 MARKHAM SCHOOL 77 6691.00 8478.50 36 1195 CREDIT UNION 76 705.00 1037.50 37 1471 CLINIC 76 3270.00 4284.50 38 213 BARRACKS 76 10322.50 13282.50 39 210 BARRACKS 76 4737.50 6107.50 40 358 ADMINISTRATION 75 77630.00 99865.00 41 190 MAINT SHOP 75 2272.50 2932.50		99	STOREHOUSE	81	940.70	1399.40
24       701       TROOP ISSUE       80       8765.00       11405.00         25       211       MAPPING SCHOOL       80       10708.00       13899.50         26       3138       HP BOILER       79       3034.70       3819.90         27       205       INSTRUCTION       79       21604.00       28302.00         28       268       ADMINISTRATION       79       2179.00       3615.00         29       231       DINING FACILITY       79       947.00       1154.00         30       374       ADMINISTRATION       79       894.50       1158.00         31       -1962.60       BARRACKS       78       36860.00       45690.00         32       366       STOREHOUSE       77       240.00       450.00         33       316       ADMINISTRATIVE       77       68684.50       88366.50         34       950       MARKHAM SCHOOL       77       1136.50       1487.00         35       745.60       MAINTENANCE       77       6691.00       8478.50         36       1195       CREDIT UNION       76       3270.00       4284.50         38       213       BARRACKS       76		3066	INSTRUCTION	81	28793.50	41121.00
25 211 MAPPING SCHOOL 80 10708.00 13899.50 26 3138 HP BOILER 79 3034.70 3819.90 27 205 INSTRUCTION 79 21604.00 28302.00 28 268 ADMINISTRATION 79 2179.00 3615.00 29 231 DINING FACILITY 79 947.00 1154.00 30 374 ADMINISTRATION 79 894.50 1158.00 31 1962.60 BARRACKS 78 36860.00 45690.00 32 366 STOREHOUSE 77 240.00 450.00 33 316 ADMINISTRATIVE 77 68684.50 88366.50 34 950 MARKHAM SCHOOL 77 1136.50 1487.00 35 745.60 MAINTENANCE 77 6691.00 8478.50 36 1195 CREDIT UNION 76 705.00 1037.50 37 1471 CLINIC 76 3270.00 4284.50 38 213 BARRACKS 76 10322.50 13282.50 39 210 BARRACKS 76 4737.50 6107.50 40 358 ADMINISTRATION 75 77630.00 99865.00 41 190 MAINT SHOP 75 2272.50 2932.50			ADMINISTRATION	80	61643.50	80341.50
26 3138 HP BOILER 79 3034.70 3819.90 27 205 INSTRUCTION 79 21604.00 28302.00 28 268 ADMINISTRATION 79 2179.00 3615.00 29 231 DINING FACILITY 79 947.00 1154.00 30 374 ADMINISTRATION 79 894.50 1158.00 31 -1962-6004 BARRACKS 78 36860.00 45690.00 32 366 STOREHOUSE 77 240.00 450.00 33 316 ADMINISTRATIVE 77 68684.50 88366.50 34 950 MARKHAM SCHOOL 77 1136.50 1487.00 35 745 60 MAINTENANCE 77 6691.00 8478.50 36 1195 CREDIT UNION 76 705.00 1037.50 37 1471 CLINIC 76 3270.00 4284.50 38 213 BARRACKS 76 10322.50 13282.50 39 210 BARRACKS 76 4737.50 6107.50 40 358 ADMINISTRATION 75 77630.00 99865.00 41 190 MAINT SHOP 75 2272.50 2932.50			TROOP ISSUE	80	8765.00	11405.00
27 205 INSTRUCTION 79 21604.00 28302.00 28 268 ADMINISTRATION 79 2179.00 3615.00 29 231 DINING FACILITY 79 947.00 1154.00 30 374 ADMINISTRATION 79 894.50 1158.00 31 -1962 60 BARRACKS 78 36860.00 45690.00 32 366 STOREHOUSE 77 240.00 450.00 33 316 ADMINISTRATIVE 77 68684.50 88366.50 34 950 MARKHAM SCHOOL 77 1136.50 1487.00 35 745 60 MAINTENANCE 77 6691.00 8478.50 36 1195 CREDIT UNION 76 705.00 1037.50 37 1471 CLINIC 76 3270.00 4284.50 38 213 BARRACKS 76 10322.50 13282.50 39 210 BARRACKS 76 4737.50 6107.50 40 358 ADMINISTRATION 75 77630.00 99865.00 41 190 MAINT SHOP 75 2272.50 2932.50			MAPPING SCHOOL	80	10708.00	13899.50
28				79	3034.70	3819.90
29 231 DINING FACILITY 79 947.00 1154.00 30 374 ADMINISTRATION 79 894.50 1158.00 31 1962.60 BARRACKS 78 36860.00 45690.00 32 366 STOREHOUSE 77 240.00 450.00 33 316 ADMINISTRATIVE 77 68684.50 88366.50 34 950 MARKHAM SCHOOL 77 1136.50 1487.00 35 745 60 MAINTENANCE 77 6691.00 8478.50 36 1195 CREDIT UNION 76 705.00 1037.50 37 1471 CLINIC 76 3270.00 4284.50 38 213 BARRACKS 76 10322.50 13282.50 39 210 BARRACKS 76 4737.50 6107.50 40 358 ADMINISTRATION 75 77630.00 99865.00 41 190 MAINT SHOP 75 2272.50 2932.50				79	21604.00	28302.00
30 374 ADMINISTRATION 79 894.50 1158.00 31 -1962 600 BARRACKS 78 36860.00 45690.00 32 366 STOREHOUSE 77 240.00 450.00 33 316 ADMINISTRATIVE 77 68684.50 88366.50 34 950 MARKHAM SCHOOL 77 1136.50 1487.00 35 745 60 MAINTENANCE 77 6691.00 8478.50 36 1195 CREDIT UNION 76 705.00 1037.50 37 1471 CLINIC 76 3270.00 4284.50 38 213 BARRACKS 76 10322.50 13282.50 39 210 BARRACKS 76 4737.50 6107.50 40 358 ADMINISTRATION 75 77630.00 99865.00 41 190 MAINT SHOP 75 2272.50 2932.50						3615.00
31						1154.00
32       366       STOREHOUSE       77       240.00       450.00         33       316       ADMINISTRATIVE       77       68684.50       88366.50         34       950       MARKHAM SCHOOL       77       1136.50       1487.00         35       745 60 MAINTENANCE       77       6691.00       8478.50         36       1195       CREDIT UNION       76       705.00       1037.50         37       1471       CLINIC       76       3270.00       4284.50         38       213       BARRACKS       76       10322.50       13282.50         39       210       BARRACKS       76       4737.50       6107.50         40       358       ADMINISTRATION       75       77630.00       99865.00         41       190       MAINT SHOP       75       2272.50       2932.50						
33 316 ADMINISTRATIVE 77 68684.50 88366.50 34 950 MARKHAM SCHOOL 77 1136.50 1487.00 35 745 60 MAINTENANCE 77 6691.00 8478.50 36 1195 CREDIT UNION 76 705.00 1037.50 37 1471 CLINIC 76 3270.00 4284.50 38 213 BARRACKS 76 10322.50 13282.50 39 210 BARRACKS 76 4737.50 6107.50 40 358 ADMINISTRATION 75 77630.00 99865.00 41 190 MAINT SHOP 75 2272.50 2932.50						45690.00
34       950       MARKHAM SCHOOL       77       1136.50       1487.00         35       745 %       MAINTENANCE       77       6691.00       8478.50         36       1195       CREDIT UNION       76       705.00       1037.50         37       1471       CLINIC       76       3270.00       4284.50         38       213       BARRACKS       76       10322.50       13282.50         39       210       BARRACKS       76       4737.50       6107.50         40       358       ADMINISTRATION       75       77630.00       99865.00         41       190       MAINT SHOP       75       2272.50       2932.50						
35 745 60 MAINTENANCE 77 6691.00 8478.50 36 1195 CREDIT UNION 76 705.00 1037.50 37 1471 CLINIC 76 3270.00 4284.50 38 213 BARRACKS 76 10322.50 13282.50 39 210 BARRACKS 76 4737.50 6107.50 40 358 ADMINISTRATION 75 77630.00 99865.00 41 190 MAINT SHOP 75 2272.50 2932.50						
36       1195       CREDIT UNION       76       705.00       1037.50         37       1471       CLINIC       76       3270.00       4284.50         38       213       BARRACKS       76       10322.50       13282.50         39       210       BARRACKS       76       4737.50       6107.50         40       358       ADMINISTRATION       75       77630.00       99865.00         41       190       MAINT SHOP       75       2272.50       2932.50		950				
37     1471     CLINIC     76     3270.00     4284.50       38     213     BARRACKS     76     10322.50     13282.50       39     210     BARRACKS     76     4737.50     6107.50       40     358     ADMINISTRATION     75     77630.00     99865.00       41     190     MAINT SHOP     75     2272.50     2932.50						
38 213 BARRACKS 76 10322.50 13282.50 39 210 BARRACKS 76 4737.50 6107.50 40 358 ADMINISTRATION 75 77630.00 99865.00 41 190 MAINT SHOP 75 2272.50 2932.50						
39 210 BARRACKS 76 4737.50 6107.50 40 358 ADMINISTRATION 75 77630.00 99865.00 41 190 MAINT SHOP 75 2272.50 2932.50						
40 358 ADMINISTRATION 75 77630.00 99865.00 41 190 MAINT SHOP 75 2272.50 2932.50						
41 190 MAINT SHOP 75 2272.50 2932.50						
10						

	BLDG	BUILDING	RISK	LOW	HIGH	
RANK PX	NUMBER SX	DESCRIPTION	INDEX	COST	COST	
			<u> </u>			
43	741-God	MAINTENANCE	75	9230.00	11910.00	
44	1189	BASE EXCHANGE	73	26850.00	35033.00	
45	1434	INSTRUCTION	73 .	3680.00	4788.00	
46	210	BARRACKS	73	24.00	45.00	
47	187	ADMINISTRATION	73	5125.25	6441.00	
48	1499	LABORATORY	72	14900.00	19200.00	
49	708	WAREHOUSE	72	7781.00	11565.00	-Demo
_50		-ADMINISTRATION	<del>72</del>	<del>631.00</del>	<del>875.</del> 00	pe
51	318	LABORATORY	71	5480.00	7134.00	
52	321	CAFETERIA	71	2070.50	2695.65	
53	1440	INSTRUCTION	70	12968.00	19080.00	
54	334	SPECIAL PROJECT	70	683.50	946.95	
55	214	INSTRUCTION	70	2040.00	2695.00	
56	435	FAIRFAX CHAPEL	70	1260.00	2055.00	
57	2470	RESERVE CENTER	70	11902.40	15697.80	
58	1416	INSTRUCTION	69	11170.00	14490.00	
59	1161	RED CROSS	69	6562.50	8437.50	
60	2118	BRANCH PX	68	3398.00	4911.00	
61	<del>1908</del> Gorie	ADMINISTRATION	68	555.00	770.00	
62	191	FIRE STATION	68	46144.00	59328.00	
63	3065	INSTRUCTION	68	12192.00	16160.00	
64	807	BARRACKS	67	2020.00	2598.00	
65	256	POST OFFICE	67	65.00	97.50	
66	-631-Gome	WAREHOUSE	66	2000.10	2503.20	
67	1445	BARRACKS	65	8200.00	12300.00	
68	1126	WAREHOUSE	65	124.00	232.50	
<u> -69 ·                                     </u>	<del>1935</del>	DISPATCH OFFICE	65	4.00	7.50	-Dem
70	317	LABORATORY	61	10374.50	13381.50	-
71	20	OFFICERS CLUB	58	3842.50	5250.50	
72	354 G-one	ADMINISTRATION	58	1465.00	1895.00	
73	226	SCOTT HALL	55	3960.00	5425.00	
74	1824	POST CHAPEL	55	339.00	530.00	
75	714	ADMINISTRATION	55	4611.50	5987.50	
76	219	ADMINISTRATION	53	1155.00	1556.00	
77	201	ADMINISTRATION	53	89054.50	115611.50	
78	1001	ADMINISTRATION	52	34960.00	45011.00	
79	1426	INSTRUCTION	52	4205.25	6933.00	
80	1809 Gove	ADMINISTRATION	52	20170.00	24840.00	
81	305	NIGHT VISION	52	106042.50	136485.00	
82	805	BARRACKS	52	7630.00	9880.00	
83	2593	ADMINISTRATION	52	233288.00	300191.00	_
84	<del>1831                                   </del>	<b>ADMINISTRATION</b>	50	<del>- 1990.00</del> -	2630.00	Dano
85	202	MGMT COLLEGE	50	1270.00	1660.00	

RANK PX	BLDG NUMBER SX	BUILDING DESCRIPTION	RISK INDEX	LOW COST	HIGH COST
				0.7.5.4.00	4000 00
86	507	TRANSIT QTRS	49	3154.00	4093.00
87	705	WAREHOUSE	49	4895.00	6255.00
88	1084	COLD STORAGE	49	9089.50	11686.50
89	1108	WAREHOUSE	48	1857.50	2578.50
90	1906	MAINTENANCE	48	3120.00	4360.00
91	1920 Gone	ADMINISTRATION	47	1440.00	2000.00
92	1931 GOV	POST OFFICE	46	391.50	488.00
93	<del>1138</del>	FURNITURE STORE	46	468.75	620.00
94	1901	ADMINISTRATION	45	1254.75	1602.00
95	1469	ADMINISTRATION	45	692.50	922.50
96	1467	CLINIC	45	128.00	186.00
97	3165	ADMINISTRATION	45	710.50	1063.50
98	3234	ADMINISTRATION	45	6977.50	8992.50
99	801	BARRACKS	45	136.40	175.80
100	1970 GONC	WAREHOUSE	45	1500.50	1956.00
101	1907 600	ADMINISTRATION	45	552.00	714.00
102	2101	ADMINISTRATION	44	21600.00	27900.00
103	1949	MAINTENANCE	44	1650.00	3075.00
104	1089	RECYCLING CTR.	43	4095.00	5040.00
105	3230	CONTROL TOWER	43	100.00	150.00
106	1023	BODY SHOP	43	200.00	300.00
107	-98 Gone	UTILITY BLDG	43	60.00	. 80.00
108	348-60NE	STOREHOUSE	43	630.00	810.00
109	320	PHOTO LAB	34	14913.50	19174.50
110	1099	LOGAN CLINIC	34	43870.40	56295.30
111	246	TELEPHONE EXCH	33	21669.50	27946.50
112	324	LABORATORY	32	72120.50	90868.50
113	215	STOREHOUSE	31	5145.00	6577.50
114	220	WHEELER HALL	30	245710.00	316500.00
115	508	TRANSIT QTRS	29	3000.50	3856.00
116	257	ADMINISTRATION	29	32227.50	41587.50
117	707	MAINTENANCE	29	24451.80	31237.60
118	329	LABORATORY	29	16662.00	21423.00
119	1834	ADMINISTRATION	28	5911.50	7628.00
120	1961	ADMINISTRATION	28	5415.00	6965.00
121	3232	MAINTENANCE	28	7268.50	9409.50
122	3151	AIRCRAFT HANGER	28	22917.50	29497.50
123	325	LABORATORY	28	15113.00	19431.00
124	1968	MAINTENANCE	28	4422.00	5754.00
125	1464	ADMINISTRATION	28	22021.50	29320.50
126	470	BOQ	28	2255.00	2920.50
127	3237	FIRE RESCUE	28	12057.00	15534.00
128	1193	ADMINISTRATION	27	423.50	582.00

RANK PX	•	BUILDING DESCRIPTION	RISK INDEX	LOW COST	HIGH COST
129	193	INFO PROCESSING	27	43800.00	56385.00
130	1000	ADMINISTRATION	27	12201.00	16017.00
131	312	TEST ENGR BLDG	27	1990.00	2610.00
132	361	COMPUTER CENTER	27	5655.00	7185.00
133	2592	TOPO LABS	26	113525.00	189210.00
134	3145	AIRCRAFT HANGER	26	22443.50	28929.50
135	1466	ADMINISTRATION	26	199690.50	258373.50
136	3126	AIRCRAFT MAINT.	26	15476.50	19930.50
137	1155	POST EXCHANGE	26	54550.00	76370.00
138	1498	LABORATORY	26	14428.00	18581.00
139	3070	INSTRUCTION	26	17283.40	22733.80
140	258	ADMINISTRATION	26	15835.00	22005.00
141	335	WAREHOUSE	26	20314.00	26118.00
142	1412	INSTRUCTION	26	10234.00	13233.00
143	2591	ADMINISTRATION	26	12355.50	16013.50
144	323	MODEL SHOP	25	420.00	540.00
145	1154	ADMINISTRATION	25	278.90	364.80
146	3069	INSTRUCTION	25	17173.40	22578.80
147	307	GENERAL PURPOSE	25	1542.50	2047.50
148	372	INSTRUCTION	25	10270.00	13215.00
149	365	ADMINISTRATION	25	5509.00	7158.00
150	353	MINE TESTING	25	3320.00	4215.00
151	195Ò	MAINTENANCE	24	3470.00	5940.00
152	<del>1938</del>	MAINTENANCE	24	1045.50	1368.50
153	2476	MAINTENANCE	24	645.00	860.00
154	<del>498</del>	DPCA CFA	24	98421.75	122946.00
155	80	VISITING BOQ	24	1860.65	2320.80
156	1024	LIBRARY	24	52560.00	67580.00
157	204	INSTRUCTION	24	2000.00	2625.00
158	322	LABORATORY	24	17155.00	21960.00
159	<del>19176</del> 0-1	ADMINISTRATION	24	4507.00	5796.50
160	1916 Gore	ADMINISTRATION	24	1336.00	1742.00
161	2436 Gone	INSTRUCTION	24	11048.00	14206.00
162	81	BARRACKS	24	2603.80	3306.60
163	505	TRANSIT QTRS	24	1750.00	2325.00
164	1436	STOREHOUSE	24	14266.00	18342.00
165	1185	EXCHANGE OUTLET	24	270.00	350.00
166	1934 Gove	ADMINISTRATION	23	2480.00	3210.00
167	216	ADMINISTRATION	23	4612.50	5962.50
168	2991	WAREHOUSE	23	51.50	84.00
169	3136	AIRFIELD OPNS	23	39805.00	51177.50
170	1953	INSTRUCTION	23	4800.00	6720.00
171	1922 GONL	ADMINISTRATION	23	4435.00	5705.00

RANK PX	BLDG NUMBER SX	BUILDING DESCRIPTION	RISK INDEX	LOW COST	HIGH COST
•					
170	710	122 DEMONAT	22	750 00	075 00
172	712	WAREHOUSE	23	750.00	975.00
173	380	ADMINISTRATION	23	5495.00	7065.00
174	337	ADMINISTRATION	23	11425.00	14700.00
175	3153	MAINTENANCE	23	554.00	723.00
176	1812 Grv	FITNESS CENTER	23	2452.95	3059.40
177	630	WAREHOUSE	23	3694.50	4771.50
178	392	LABORATORY	23	96850.00	124650.00
179	1169 F~~	ADMINISTRATION	23	12310.00	15795.00
180	1822	DINING FACILITY	23	23538.75	30240.00
181	1813 60 m	STOREHOUSE	23	310.00	455.00
182	1805 GONL	ADMINISTRATION	23	131.20	188.40
183	1186	POST EXCHANGE	23	7255.00	9326.00
184	181960pc	ADMINISTRATION	22	50.00	75.00
185	1133	POWER PLANT	22	50.00	75.00
186	189	MOTOR POOL	22	2887.50	3712.50
187	221	INSTRUCTION	22	231.00	297.00
188	222	INSTRUCTION	22	227.50	292.50
189	704	WAREHOUSE	22	50.00	75.00
190	235	ADMINISTRATION	22	7906.50	10165.50
191	7395	SENTRY STATION	22	787.50	1012.50
192	2115	CLINIC	22	280.00	360.00
193	1494	GOLF CLUB HOUSE	22	1400.00	1800.00
194	1491	ADMINISTRATION	22	1449.00	1863.00
195	1490	STOREHOUSE	22	378.00	486.00
196	3235	HEALTH CLINIC	22	1100.00	1650.00
197	506	TRANSIT QTRS	22	350.00	525.00
198	3 <del>0</del> 3€04€	ADMINISTRATION	22	7392.00	9504.00
199	200	COMMUNITY CTR.	22	720.00	936.00
200	2590	ADMINISTRATION	22	5789.00	7443.00
201	340	SECURITY OFFICE	22	4725.00	6075.00
202	1439	INSTRUCTION	22	4900.00	6300.00
203	1697	ADMINISTRATION	22	6972.00	8964.00
204	269	POST HQ	22	250.00	375.00
205	· 1187	EXCHANGE OUTLET	22	1330.00	1710.00
206	1199	BOWLING CENTER	22	4900.00	6300.00
207	1196	LAUNDRYMAT	22	50.00	75.00
208	270	TECH LIBRARY	9	6155.50	9730.50
209	1425	ADMINISTRATION	6	64470.00	82890.00
210	1911	ADMINISTRATION	5	4999.30	6402.60
211	1902	ADMINISTRATION	5	1587.25	2022.00
212	190360NC	ADMINISTRATION	5	16130.50	20788.50
213	1148	MAINTENANCE	4	1346.40	1684.80
214	1113	STOREHOUSE	4	18375.00	23625.00

	BLDG NUMBER SX	BUILDING DESCRIPTION	RISK INDEX	LOW COST	HIGH COST
		•			
215	<del>1802</del> 60NE	FIRE STATION	4	3297.00	4239.00
216	509	TRANSIT QTRS	4	3045.00	3915.00
217	2594	ADMINISTRATION	3	26244.00	34578.00
218	1428	INSTRUCTION	3	4070.00	5698.00
219	1018	CHAPEL	3	24199.00	31113.00
220	1 <del>837</del>	ADMINISTRATION	3	110.00	155.00
221	<del>-1826</del>	ADMINISTRATION	3	4750.00	7875.00
222	<del>1915</del>	ADMINISTRATION	3	7158.00	9206.00
223	740	MAINTENANCE	3	1841.00	2367.00
224	2105	ADMINISTRATION	3	42600.00	54900.00
225	1142	WAREHOUSE	3	529.20	674.40
226	182	INDOOR POOL	3	165.60	244.20
227	1153	MORALE SUPPORT	3	1042.50	1525.00
228	3128	ADMINISTRATIVE	2	388.50	499.50
229	629	WAREHOUSE	2	1170.00	1440.00
230	<del>1912</del> 60mc	ADMINISTRATION	2	4252.50	5467.50
231	2990	WAREHOUSE	2	250.00	375.00
232	1952	INSTRUCTION	2	6720.00	8640.00
233	180660n	EOD OFFICE	2	5152.00	6624.00
234	336	LABORATORY	2	962.50	1237.50
235	715	MAINTENANCE	2	203.00	261.00
236	718	STOREHOUSE	2	39.00	48.00
237	1810	FITNESS CENTER	2	450.00	675.00
238	238	EXCHANGE ANNEX	THRIFT 2	1560.00	2080.00
239	709	WAREHOUSE	2	100.00	150.00
240	1141	WAREHOUSE	2	31.20	38.40
241	1923 6 one	ADMINISTRATION	. 2	124.80	153.60
242	1194	CRESTAR BANK	2	2327.50	2992.50
243	806	BARRACKS	2	7.00	9.00
244	1109	STOREHOUSE	2	1421.00	1827.00
245	1025	CHAPEL	2	15064.00	19368.00
246	1444	ADMINISTRATION	2	6300.00	8100.00
247	815	HEALTH CLINIC	2	800.00	1200.00
248	1143	WAREHOUSE	2	31.20	38.40
249	184	ADMINISTRATION	2	17500.00	22500.00
250	1147	SPORTS OFFICE	2	4053.00	6755.00
251	212Ó	THEATER	2	180.00	240.00
*** Total				•	
***				4683287.80	6114886.80

200 200 200 200 200 200 200 200 210	182 184 187 189 190	20 69 80 81 83 83	BLDG NUMBER =======
INFO PROCESSING COMMUNITY CTR. ADMINISTRATION MGMT COLLEGE BARRACKS INSTRUCTION INSTRUCTION INSTRUCTION BARRACKS MAPPING SCHOOL	HZZZOH	OFFICERS CLUB SNACK BAR VISITING BOQ BARRACKS GIRL SCOUTS TREATMENT COOP	BUILDING NAME ==========
REINSPECTION REINSPECTION REINSPECTION REINSPECTION REINSPECTION REINSPECTION REINSPECTION REINSPECTION. NO SUSPECT ACBM REINSPECTION. NO SUSPECT ACBM REINSPECTION REINSPECTION		REINSPECTION. NO SUSPECT ASBESTOS CONTAINING BUILDING MATERIALS (ACBM) REINSPECTION REINSPECTION. NO SUSPECT ACBM ALDEMO DEFINISPECTION. NO SUSPECT ACBM ALDEMO DEFINISPECTION.	COMMENTS

BUILDING NAME

COMMENTS

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### Asbestos Survey Master Building List

305 307 309 312	270 291 292	258 259 268 269	240 246 247 256 257		212 213 214 215 216
NIGHT VISION NIGHT VISION GENERAL PURPOSE SIMULATOR BLDG TEST ENGR BLDG	TECH LIBRARY CIVILIAN PERS. WAELCHLI ROOM	ADMINISTRATION OUTDOOR POOL ADMINISTRATION POST HQ	M H R E	WHEELER HALL INSTRUCTION INSTRUCTION SCOTT HALL DINING FACILITY ADMINISTRATION EXCHANGE ANNEX	BARRACKS BARRACKS INSTRUCTION STOREHOUSE ADMINISTRATION
REINSPECTION. BUILDING RENOVATED REINSPECTION REINSPECTION REINSPECTION REINSPECTION	. NO SUSPECT ACBM . NO SUSPECT ACBM	REINSPECTION FIRST TIME INSPECTION. NO SUSPECT ACEM REINSPECTION REINSPECTION. VACANT DUE TO FIRE	REINSPECTION REINSPECTION REINSPECTION REINSPECTION REINSPECTION	REINSPECTION REINSPECTION. REINSPECTION. REINSPECTION REINSPECTION REINSPECTION REINSPECTION	REINSPECTION. BUILDING VACANT REINSPECTION REINSPECTION REINSPECTION REINSPECTION

BLDG NUMBER ========

> BUILDING NAME

COMMENTS

	342 345	340	337				332	331	330	329	328		326	325	324	323	322	321	320	319	318	317	316	315	314	313
STOREHOUSE WAREHOUSE STOREHOUSE	HEATING PLANT	SECURITY OFFICE	ADMINISTRATION	LABORATORY	WAREHOUSE	SPECIAL PROJECT	HEATING PLANT	MAINT. DIV.	FE/WOOD SHOP	LABORATORY	GARAGE	ADMINISTRATION	LABORATORY	LABORATORY	LABORATORY	MODEL SHOP	LABORATORY	CAFETERIA	PHOTO LAB	COUNTERMINE DIV	LABORATORY	LABORATORY	ADMINISTRATIVE	ADMIN FACILITY	ADMIN FACILITY	STOREHOUSE
TIME PECTIONE	FIRST TIME INS	REINSPECTION.	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION.	REINSPECTION.	REINSPECTION	REINSPECTION.	REINSPECTION	REINSPECTION.	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION.						
PEC	NO SUSPECT								NO SUSPECT ACBM			SCHEDULED FOR DEMOLITION								NO SUSPECT ACBM						NO SUSPECT ACBM

BLDG NUMBER =======

> BUILDING NAME

COMMENTS

### Asbestos Survey Master Building List

435 470	3992 397 4 2 0	3 2 2 2 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2	372 374 378	3 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 5 5 6 6 6 6 6 6 6 6 6 6 6 6
FAIRFAX CHAPEL BOQ  DPCA CFA	LABORATORY STORAGE STOREHOUSE	STOREHOUSE STOREHOUSE MAINTENANCE STOREHOUSE	INSTRUCTION ADMINISTRATION STOREHOUSE TOWER	ADMINISTRATION MAINTENANCE ADMINISTRATION COMPUTER CENTER LABORATORY ADMINISTRATION STOREHOUSE	STOREHOUSE STOREHOUSE MINE TESTING ADMINISTRATION STORAGE
REINSPECTION REINSPECTION REINSPECTION REINSPECTION	REINSPECTION. NO SUSPECT ACBM FIRST TIME INSPECTION. NO SUSPECT ACBM BETWSDECTION		REINSPECTION. REINSPECTION. NO SUSPECT ACBM REINSPECTION. NO SUSPECT ACBM REINSPECTION. NO SUSPECT ACBM	REINSPECTION REINSPECTION. NO SUSPECT ACBM FIRST TIME INSPECTION REINSPECTION REINSPECTION FIRST TIME INSPECTION FIRST TIME INSPECTION	FIRST TIME INSPECTION. NO SUSPECT ACEM REINSPECTION. NO SUSPECT ACEM REINSPECTION REINSPECTION FIRST TIME INSPECTION. NO SUSPECT ACEM

BUILDING NAME

COMMENTS

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### Asbestos Survey Master Building List

805 806 807 808 812	745 801 802	718 737 740 741	714 715 716	709	705 707 708	701	629 630	508	50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 5
BARRACKS BARRACKS BARRACKS DEWITT HOSPITAL HEAT PLANT	MAINTENANCE BARRACKS MEDICAL COMPANY	STOREHOUSE STOREHOUSE MAINTENANCE MAINTENANCE	ADMINISTRATION MAINTENANCE STORAGE	WAREHOUSE WAREHOUSE	WAKEHOUSE MAINTENANCE WAREHOUSE	TROOP ISSUE WAREHOUSE	WAREHOUSE WAREHOUSE WAREHOUSE	TRANSIT QTRS TRANSIT QTRS	
REINSPECTION REINSPECTION REINSPECTION REINSPECTION REINSPECTION. NO SUSPECT ACBM	REINSPECTION REINSPECTION	FIRST TIME INSPECTION. NO SUSPECT ACBM REINSPECTION REINSPECTION	TIME :	REINSPECTION REINSPECTION	REINSPECTION REINSPECTION	REINSPECTION REINSPECTION	REINSPECTION REINSPECTION REINSPECTION	REINSPECTION REINSPECTION	REINSPECTION REINSPECTION



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BUILDING NAME

# Asbestos Survey Master Building List

NAME COMMENTS

1126 1131	1125	1123	112250NE	1121 GOVE	1116	1115	1114	1113	1112	1109	1108	1107	1099	1089	1084	1080 GONG	1030	1027 GONE	1025	1024	1023	1021	1018	1017	1001	1000	950	815
WAREHOUSE MILITARY POLICE	GAS STATION	STOREHOUSE	ADMINISTRATION	MAINTENANCE	MAINTENANCE	MAINTENANCE	STOREHOUSE	STOREHOUSE	STOREHOUSE	STOREHOUSE	WAREHOUSE	STOREHOUSE	LOGAN CLINIC	RECYCLING CTR.	COLD STORAGE	ADMINISTRATION	ADMINISTRATION	RELIGIOUS ED.	CHAPEL	LIBRARY	BODY SHOP	STOREHOUSE	CHAPEL	BARDEN SCHOOL	ADMINISTRATION	ADMINISTRATION	MARKHAM SCHOOL	HEALTH CLINIC
REINSPECTION. NO SUSPECT ACBM	. NO SUSPECT	REINSPECTION. NO SUSPECT ACBM	BUILDING DEMOLISHED	BUILDING DEMOLISHED	REINSPECTION. NO SUSPECT ACBM	BUILDING DEMOLISHED	REINSPECTION. NO SUSPECT ACBM	REINSPECTION	REINSPECTION. NO SUSPECT ACBM	REINSPECTION	REINSPECTION	REINSPECTION. NO SUSPECT ACBM	REINSPECTION	REINSPECTION	FIRST TIME INSPECTION DEMO D	BUILDING DEMOLISHED	REINSPECTION		FIRST TIME INSPECTION		OVA	FIRST TIME INSPECTION. NO SUSPECT ACBM	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION ALL ARM ABATED	REINSPECTION



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BLDG NUMBER

> BUILDING NAME

COMMENTS

### Asbestos Survey Master Building List

	1187	1182 1185	1170	1161 1169	1155	1154	15	1150	114/ 1148	1146	1145	1144	1143	1142	1141	1140	1138	1134	1133	1132
HHZ	FOST EXCHANGE EXCHANGE OUTLET		ADMINISTRATION REUP OFFICE	RED CROSS	POST EXCHANGE	S	MORALE SUPPORT	TRIICK RENTAL	MATUTHUANCE MATUTHUANCE		WAREHOUSE	WAREHOUSE	WAREHOUSE	WAREHOUSE	WAREHOUSE	WAREHOUSE	FURNITURE STORE	STOREHOUSE	POWER PLANT	PRIME POWER
LOEGE	REINSPECTION NO STISTED ACEM	REINSPECTION. NO SUSPECT ACBM FIRST TIME INSPECTION	REINSPECTION. BUILDING RENOVATED. NO SUSPECT ACBM REINSPECTION. NO SUSPECT ACBM	REINSPECTION	0	FIRST TIME INSPECTION	REINSPECTION	PERSON TIME INSPECTION	REINSPECTION	REINSPECTION	REINSPECTION. NO SUSPECT ACBM	REINSPECTION. NO SUSPECT ACBM	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION. NO SUSPECT ACBM	ON	FIRST TIME INSPECTION. NO SUSPECT ACBM	REINSPECTION	REINSPECTION

> BUILDING NAME

COMMENTS

1474 GONE 1475 1490	1471	1469	1467	1466		1465	1464	1462	1445	1444	1442	1440	1439	1437	1436	1434	1428	1426	1425	1423	1416	1412	1409	1200	1199	1197	1196
ADMINISTRATION ADMINISTRATION STOREHOUSE	CLINIC	ADMINISTRATION	CLINIC	ADMINISTRATION	+ + + + + + + + + + + + + + + + + + + +	ADMINISTRATION	ADMINISTRATION	KAWAMURA CENTER	BARRACKS	ADMINISTRATION	ADMINISTRATION	INSTRUCTION	INSTRUCTION	STOREHOUSE	STOREHOUSE	INSTRUCTION	INSTRUCTION	INSTRUCTION	ADMINISTRATION	STOREHOUSE	INSTRUCTION	INSTRUCTION	ADMINISTRATION	NCO CLUB	BOWLING CENTER	GAS STATION	LAUNDRYMAT
REINSPECTION Demo Demo	FIRST TIME INSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	DING RENOVATION	IINABI.E TO BETUS	. RENOVATED T	. NO SUSPECT ACBM	IN 199	REINSPECTION. RENOVATED, FALL 1992	REINSPECTION	REINSPECTION	REINSPECTION	FIRST TIME INSPECTION	REINSPECTION	REINSPECTION. UNDER RENOVATION	REINSPECTION	REINSPETION	REINSPECTION	REINSPECTION. NO SUSPECT ACBM	REINSPECTION	REINSPECTION	BUILDING DEMOLISHED	REINSPECTION ARMED	REINSPECTION	REINSPECTION. NO SUSPECT ACBM	REINSPECTION

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BUILDING NAME

# Asbestos Survey Master Building List

NAME COMMENTS

1826 1831 1834 1837 1901 1902	1817 1818 1819 1822 1824 1825	,	1491 1493 1494 1495 1496 1498 1499 1696
ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION	ADMINISTRATION ADMINISTRATION ADMINISTRATION DINING FACILITY POST CHAPEL ADMINISTRATION	FIRE STATION POST CHAPEL ADMINISTRATION EOD OFFICE ADMINISTRATION FITNESS CENTER FITNESS CENTER FITNESS CENTER STOREHOUSE ADMINISTRATION	ADMINISTRATION STOREHOUSE GOLF CLUB HOUSE STOREHOUSE INSTRUCTION LABORATORY LABORATORY ADMINISTRATION ADMINISTRATION
REINSPECTION REINSPECTION REINSPECTION REINSPECTION REINSPECTION REINSPECTION	BUILDING DEMOLISHED REINSPECTION. NO SUSPECT ACBM REINSPECTION REINSPECTION FIRST TIME INSPECTION BUILDING DEMOLISHED	ION DEMOCIATION DE INSPECTI E INSPECTI E INSPECTI ION ION ION ION ION ION ION ION ION IO	REINSPECTION. NO SUSPECT ACBM FIRST TIME INSPECTION REINSPECTION. NO SUSPECT ACBM FIRST TIME INSPECTION. NO SUSPECT ACBM FIRST TIME INSPECTION FIRST TIME INSPECTION FIRST TIME INSPECTION. NO SUSPECT ACBM FIRST TIME INSPECTION. NO SUSPECT ACBM

BUILDING NAME

COMMENTS

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### Asbestos Survey Master Building List

111	105	102	יעי רחר ר	968	962	961	956	953	952	950	.949	946	938	935	.934	.931	.923	922	.920	.917	.916	.915	.912	.911	908	907	906	903
BARRACKS	ADMINISTRATION	BARRACKS	WAKEHOOSE	MAINTENANCE	BARRACKS	ADMINISTRATION	DISPATCH OFFICE	INSTRUCTION	INSTRUCTION	MAINTENANCE	MAINTENANCE	STOREHOUSE	MAINTENANCE	DISPATCH OFFICE	ADMINISTRATION	POST OFFICE	ADMINISTRATION	ADMINISTRATION	ADMINISTRATION	ADMINISTRATION	MAINTENANCE	ADMINISTRATION						
REINSPECTION. NO SUSPECT ACBM	SPECTION	RETUSPECTION NO SUSPECT ACRM	4 N N	REINSPECTION	REINSPECTION		FIRST TIME INSPECTION	REINSPECTION	FIRST TIME INSPECTION	REINSPECTION	REINSPECTION	TIME	TIME	FIRST TIME INSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	TIME	TIME	TIME	FIRST TIME INSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	PECTIO:	FIRST TIME INSPECTION

BUILDING NAME

COMMENTS

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# Asbestos Survey Master Building List

2904 STO 2905 STO 2907 MAI 2990 WAR 2991 WAR 2991 INS 3065 STO	901	2591 ADM 2592 TOP 2593 ADM 2594 ADM 2845 CLEA PADM	Gono	2113 ADM 2115 CLI 2117 HEA 2118 BRA 2120 THE 2393 FIR
STOREHOUSE STOREHOUSE MAINTENANCE WAREHOUSE WAREHOUSE INSTRUCTION INSTRUCTION STOREHOUSE	CLUB HOUSE EHOUSE	ADMINISTRATION TOPO LABS ADMINISTRATION ADMINISTRATION ADMINISTRATION		ADMINISTRATION CLINIC HEATING PLANT BRANCH PX THEATER FIRING RANGE
INSPECTION. NO SUSPECT INSPECTION. NO SUSPECT ON ON ALL DEMONDA TO THE TRANSPECT ON ALL DEMONDS	BUILDING DEMOLISHED. REPLACED WITH NEW BUILDING IN 1993. FIRST TIME INSPECTION. NO SUSPECT ACRM	FIRST TIME INSPECTION FIRST TIME INSPECTION REINSPECTION FIRST TIME INSPECTION BUILDING NOT INSPECTED PER FT BELVOIR DPW COR, JAMES GREGORY	TIME TIME DEI PECTIOI PECTIOI PECTIOI PECTIOI	REINSPECTION. NO SUSPECT ACBM REINSPECTION REINSPECTION. NO SUSPECT ACBM REINSPECTION REINSPECTION FIRST TIME INSPECTION



BUILDING NAME

COMMENTS

### Asbestos Survey Master Building List

32332 32332 32334 32337 3237 7326 7326	3151 3153 3165 3165 3170 3230	3126 3128 3136 3137 3137 3140 3141	3069 3070 3074 3075 3085 3086 3086 3087
MAINTENANCE ADMINISTRATION HEALTH CLINIC FIRE RESCUE STOREHOUSE PUMP STATION SENTRY STATION	AIRCRAFT HANGER MAINTENANCE ADMINISTRATION PUMP STATION CONTROL TOWER	AIRCRAFT MAINT. ADMINISTRATIVE AIRFIELD OPNS ADMINISTRATION HP BOILER AIRCRAFT HANGER ADMINISTRATION ATBCDAFT HANGER	INSTRUCTION INSTRUCTION STOREHOUSE GAS CHAMBER UNKNOWN INSTRUCTION INSTRUCTION STOREHOUSE
REINSPECTION REINSPECTION REINSPECTION REINSPECTION REINSPECTION. NO SUSPECT ACBM REINSPECTION. NO SUSPECT ACBM FIRST TIME INSPECTION.	REINSPECTION REINSPECTION REINSPECTION FIRST TIME INSPECTION. NO SUSPECT ACBM REINSPECTION REINSPECTION	REINSPECTION REINSPECTION REINSPECTION REINSPECTION FIRST TIME INSPECTION FIRST TIME INSPECTION (PART OF BUILDING 3140) REINSPECTION	REINSPECTION REINSPECTION FIRST TIME INSPECTION. NO SUSPECT ACBM FIRST TIME INSPECTION. NO SUSPECT ACBM BUILDING DEMOLISHED REINSPECTION. NO SUSPECT ACBM REINSPECTION. NO SUSPECT ACBM FIRST TIME INSPECTION. NO SUSPECT ACBM

203 204 205 206 208 210 211	190 191 193 200 201	83 96 98 189 182	8 69 80	BLDG NUMBER
BARRACKS INSTRUCTION INSTRUCTION INSTRUCTION INSTRUCTION BARRACKS MAPPING SCHOOL	MAINT SHOP FIRE STATION INFO PROCESSING COMMUNITY CTR. ADMINISTRATION MGMT COLLEGE	GIRL SCOUTS TREATMENT COOP UTILITY BLDG STOREHOUSE INDOOR POOL ADMINISTRATION ADMINISTRATION MOTOR POOL	OFFICERS CLUB SNACK BAR VISITING BOQ	BUILDING NAME
REINSPECTION REINSPECTION REINSPECTION REINSPECTION. REINSPECTION REINSPECTION	REINSPECTION REINSPECTION. REINSPECTION REINSPECTION REINSPECTION REINSPECTION	REINSPECTION. REINSPECTION. REINSPECTION REINSPECTION REINSPECTION REINSPECTION REINSPECTION REINSPECTION	REINSPECTION REINSPECTION. N MATERIALS (ACBM) REINSPECTION	COMMENTS
NO SUSPECT ACBM	(WAS 191A AND 191B)	NO SUSPECT ACBM	NO SUSPECT ASBESTOS CONTAINING BUILDING BM)	

BUILDING NAME

COMMENTS

224 225 225 225 225 225 225 230 230 230 230 230 230 230 230 230 230	212 213 213 222 213 222 222 233 233 233
TELEPHONE EXCH HUMPHRY'S HALL POST OFFICE ADMINISTRATION ADMINISTRATION OUTDOOR POOL ADMINISTRATION POST HQ TECH LIBRARY CIVILIAN PERS. WAELCHLI ROOM ADMINISTRATION NIGHT VISION GENERAL PURPOSE SIMULATOR BLDG TEST ENGR BLDG	N N C T O O N N N N E O
REINSPECTION REINSPECTION REINSPECTION REINSPECTION REINSPECTION FIRST TIME INS REINSPECTION. REINSPECTION. REINSPECTION. REINSPECTION. REINSPECTION. REINSPECTION. REINSPECTION REINSPECTION REINSPECTION REINSPECTION REINSPECTION	REINSPECTION. REINSPECTION REINSPECTION REINSPECTION REINSPECTION REINSPECTION REINSPECTION. REINSPECTION REINSPECTION REINSPECTION REINSPECTION REINSPECTION REINSPECTION REINSPECTION REINSPECTION
N N N N INSPECTION. NO SUSPECT ACBM N N N N N N N N N N N N N N N N N N N	BUILDING VACANT

> BUILDING NAME

COMMENTS

342 345 346 347	337	υ ω ω ω υ ω ω ω 4 τυ π	331 330 330	328	327	326	324 325	323	322	320 321	319	318	317	316	315	314	313
HEATING PLANT STOREHOUSE STOREHOUSE WAREHOUSE STOREHOUSE	ADMINISTRATION SECURITY OFFICE	HEATING FLANT SPECIAL PROJECT WAREHOUSE LABORATORY		GARAGE LABORATORY	ADMINISTRATION	LABORATORY	LABORATORY	MODEL SHOP	LABORATORY	PHOTO LAB CAFETERIA	COUNTERMINE DIV	LABORATORY	LABORATORY	ADMINISTRATIVE	ADMIN FACILITY	ADMIN FACILITY	STOREHOUSE
FIRST TIME INS FIRST TIME INS FIRST TIME INS REINSPECTION. FIRST TIME INS	REINSPECTION.	REINSPECTION REINSPECTION REINSPECTION	REINSPECTION. REINSPECTION	REINSPECTION.	REINSPECTION.	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION.	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	REINS PECTION.
INSPECTION. NO SUSPECT ACEM INSPECTION. NO SUSPECT ACEM INSPECTION. NO SUSPECT ACEM N. NO SUSPECT ACEM INSPECTION			NO SUSPECT ACBM		SCHEDULED FOR DEMOLITION						NO SUSPECT ACBM						NO SUSPECT ACBM

BUILDING NAME

COMMENTS

399 435 470 498	390 392 394 397	3 8 0 3 8 2 1 3 8 4 2 1	365 365 372 374 379	2 2 2 2 2 2 2 2 4 4 7 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
LABORATORY FAIRFAX CHAPEL BOQ DPCA CFA	LABORATORY LABORATORY STORAGE STOREHOUSE	ADMINISTRATION STOREHOUSE STOREHOUSE MAINTENANCE STOREHOUSE	COMPUTER CENTER LABORATORY ADMINISTRATION STOREHOUSE INSTRUCTION ADMINISTRATION STOREHOUSE TOWER	STOREHOUSE STOREHOUSE MINE TESTING ADMINISTRATION STORAGE LABORATORY ADMINISTRATION MAINTENANCE ADMINISTRATION
REINSPECTION FIRST TIME INSPECTION REINSPECTION REINSPECTION	BUILDING DEMOLISHED REINSPECTION REINSPECTION. NO SUSPECT ACBM FIRST TIME INSPECTION. NO SUSPECT ACBM		REINSPECTION REINSPECTION FIRST TIME INSPECTION FIRST TIME INSPECTION REINSPECTION REINSPECTION. NO SUSPECT ACBM REINSPECTION. NO SUSPECT ACBM	FIRST TIME INSPECTION. NO SUSPECT ACEM REINSPECTION. NO SUSPECT ACEM REINSPECTION FIRST TIME INSPECTION. NO SUSPECT ACEM REINSPECTION REINSPECTION. NO SUSPECT ACEM REINSPECTION. NO SUSPECT ACEM REINSPECTION. NO SUSPECT ACEM

BUILDING NAME

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COMMENTS

807 808 812	806	802 05	801	745	741	740	737	718	716	715	714	712	709	708	707	705	704	701	631	630	629	509	508	507	506	505	
BARRACKS DEWITT HOSPITAL HEAT PLANT	BARRACKS	MEDICAL COMPANY	BARRACKS	MAINTENANCE	MAINTENANCE	MAINTENANCE	STOREHOUSE	STOREHOUSE	STORAGE	MAINTENANCE	ADMINISTRATION	WAREHOUSE	WAREHOUSE	WAREHOUSE	MAINTENANCE	WAREHOUSE	WAREHOUSE	TROOP ISSUE	WAREHOUSE	WAREHOUSE	WAREHOUSE	TRANSIT QTRS					
REINSPECTION REINSPECTION. NO SUSPECT ACBM	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	ON CONTRACTOR		SPECTION.	0	FIRST TIME INSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	

BUILDING NAME

NAME COMMENTS

REINSPECTION REINSPECTION REINSPECTION REINSPECTION REINSPECTION REINSPECTION. NO SUSPECT REINSPECTION. BUILDING RENOVATED I REINSPECTION BUILDING DEMOLISHED REINSPECTION BUILDING DEMOLISHED FIRST TIME INSPECTION REINSPECTION. NO SUSPECT ACBM REINSPECTION REINSPECTION. NO SUSPECT ACBM REINSPECTION. NO SUSPECT ACBM REINSPECTION. NO SUSPECT ACBM BUILDING DEMOLISHED BUILDING DEMOLISHED BUILDING DEMOLISHED BUILDING DEMOLISHED BUILDING DEMOLISHED REINSPECTION. NO SUSPECT ACBM	1131	1100	1126	1125	1123	112260NE	1131 Gove	1116	1116	1114	1113	1112	1109	1108	1107	1099	1089	1084	3 200 000L	1030	1027 G-VE	1025	1024	1023	1021	1018	1017	1001	1000	950	815
INSPECTION INSPECTION INSPECTION INSPECTION INSPECTION RST TIME INSPECTION. NO SUSPECT INSPECTION RST TIME INSPECTION INSPECTION. NO SUSPECT ACBM ILDING DEMOLISHED INSPECTION. NO SUSPECT ACBM ILDING DEMOLISHED ILDING DEMOLISHED INSPECTION. NO SUSPECT ACBM			WAREHOUSE	GAS STATION	STOREHOUSE	ADMINISTRATION	MAINTENANCE	MAINTENANCE	MAINTENANCE	STOREHOUSE	STOREHOUSE	STOREHOUSE	STOREHOUSE	WAREHOUSE	STOREHOUSE	LOGAN CLINIC	RECYCLING CTR.	COLD STORAGE	ADMINISTRATION	ADMINISTRATION		CHAPEL	LIBRARY	BODY SHOP	STOREHOUSE	CHAPEL		ADMINISTRATION	ADMINISTRATION	MARKHAM SCHOOL	HEALTH CLINIC
ACBM 1993-94	TUSDECTION NO SIISDECT	THE PROPERTY OF STREET	INSPECTION	NO SUSPECT	NO SUSPECT		BUILDING DEMOLISHED	NO SUSPECT	LISHED	USPECT		. NO SUSPECT	REINSPECTION	REINSPECTION	. NO SUSPECT ACBI	REINSPECTION	REINSPECTION	FIRST TIME INSPECTION	BUILDING DEMOLISHED	REINSPECTION	BUILDING DEMOLISHED	TIME		BUILDING RENOVATED IN	TIME INSPECTION. NO SUSPECT	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION

BUILDING NAME

COMMENTS

1189 1193 1194 1195	1188	1186 1187	1185	1171	1170	1169	1161	1155	1154	1153	1150	1148	1147	1146	1145	1144	1143	1142	1141	1140	1138	1134	1133	1132	
BASE EXCHANGE ADMINISTRATION CRESTAR BANK CREDIT UNION	POST EXCHANGE	POST EXCHANGE	EXCHANGE OUTLET	REUP OFFICE	ADMINISTRATION	ADMINISTRATION	RED CROSS	POST EXCHANGE	ADMINISTRATION	MORALE SUPPORT	TRUCK RENTAL	MAINTENANCE	SPORTS OFFICE	PX GARAGE	WAREHOUSE	WAREHOUSE	WAREHOUSE	WAREHOUSE	WAREHOUSE	WAREHOUSE	FURNITURE STORE	STOREHOUSE	POWER PLANT	PRIME POWER	
REINSPECTION REINSPECTION FIRST TIME INSPECTION FIRST TIME INSPECTION	REINSPECTION. NO SUSPECT ACBM	REINSPECTION FIRST TIME INSPECTION	FIRST TIME INSPECTION	NO SUSPECT	. BUI	REINSPECTION	REINSPECTION	0	FIRST TIME INSPECTION	REINSPECTION	FIRST TIME INSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION. NO SUSPECT ACBM	REINSPECTION. NO SUSPECT ACBM	REINSPECTION	REINSPECTION		REINSPECTION. NO SUSPECT ACBM		FIRST TIME INSPECTION. NO SUSPECT ACBM	REINSPECTION	REINSPECTION	

> BUILDING NAME

COMMENTS

### Asbestos Survey Master Building List

1471 1474 Gone 1475 1490	$\sigma$	1466	1464	1462	1444 1445	1442	1440	1439	1437	1436	1434	1428	1426	1425	1423	1416	1412	1409	1200	1199	1197	1196
CLINIC ADMINISTRATION ADMINISTRATION STOREHOUSE	CLINIC	ADMINISTRATION	ADMINISTRATION	KAWAMURA CENTER	ADMINISTRATION BARRACKS	ADMINISTRATION	INSTRUCTION	INSTRUCTION	STOREHOUSE	STOREHOUSE	INSTRUCTION	INSTRUCTION	INSTRUCTION	ADMINISTRATION	STOREHOUSE	INSTRUCTION	INSTRUCTION	ADMINISTRATION	NCO CLUB	BOWLING CENTER	GAS STATION	LAUNDRYMAT
FIRST TIME INSPECTION BUILDING DEMOLISHED REINSPECTION REINSPECTION	REINSPECTION REINSPECTION	REINSPECTION: UNABLE TO REINSPECT DUE TO ONGOING COMPLETE BUILDING RENOVATION	RENOVATED IN 1992	NO SUSPECT ACBM	RENOVATED,	REINSPECTION	REINSPECTION	REINSPECTION	FIRST TIME INSPECTION	REINSPECTION	REINSPECTION. UNDER RENOVATION	REINSPECTION	REINSPETION		REINSPECTION. NO SUSPECT ACBM	REINSPECTION	REINSPECTION	BUILDING DEMOLISHED	REINSPECTION	REINSPECTION	REINSPECTION. NO SUSPECT ACBM	REINSPECTION

BUILDING NAME

COMMENTS

> BUILDING NAME

COMMENTS

2111	2105	2102	2101	1970	1968	1962	1961	1956	1953	1952	1950	1949	1946	1938	1935	1934	1931	1923	1922	1920	1917	1916	1915	1912	1911	1908	1907	1906	1903
BARRACKS	ADMINISTRATION	BARRACKS	ADMINISTRATION	WAREHOUSE	MAINTENANCE	BARRACKS	ADMINISTRATION	DISPATCH OFFICE	INSTRUCTION	INSTRUCTION	MAINTENANCE	MAINTENANCE	STOREHOUSE	MAINTENANCE	DISPATCH OFFICE	ADMINISTRATION	POST OFFICE	ADMINISTRATION	ADMINISTRATION	ADMINISTRATION	ADMINISTRATION	MAINTENANCE	ADMINISTRATION						
REINSPECTION. NO SUSPECT ACBM	FIRST TIME INSPECTION	REINSPECTION. NO SUSPECT ACBM	FIRST TIME INSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	FIRST TIME INSPECTION	REINSPECTION	FIRST TIME INSPECTION	REINSPECTION	0	TIME		FIRST TIME INSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	TIME	TMIT	TIME	FIRST TIME INSPECTION	REINSPECTION	REINSPECTION	REINSPECTION	_	FIRST TIME INSPECTION

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			METSLEBUS
2905 2907 2990 2991 3065 3066 3066	901 903 904	2590 2591 2592 2593 2593 2845	2113 2115 2117 2118 2120 2393 2436: Demo 2436: Demo 2470 2470 2473
STOREHOUSE MAINTENANCE WAREHOUSE WAREHOUSE INSTRUCTION INSTRUCTION STOREHOUSE	GOLF CLUB HOUSE STOREHOUSE STOREHOUSE	STOREHOUSE ADMINISTRATION ADMINISTRATION TOPO LABS ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION	ADMINISTRATION CLINIC HEATING PLANT BRANCH PX THEATER FIRING RANGE INSTRUCTION INSTRUCTION RESERVE CENTER MAINTENANCE
NO SUSPECT	RY ING DEMOLISHED. REPLACED TIME INSPECTION. NO SUS TIME INSPECTION. NO SUS	REINSPECTION. NO SUSPECT ACBM  FIRST TIME INSPECTION  FIRST TIME INSPECTION  FIRST TIME INSPECTION  REINSPECTION  REINSPECTION  FIRST TIME INSPECTION  BUILDING NOT INSPECTED PER FT BELVOIR DPW COR. JAMES	REINSPECTION. NO SUSPECT ACBM REINSPECTION REINSPECTION. NO SUSPECT ACBM REINSPECTION FIRST TIME INSPECTION FIRST TIME INSPECTION BUILDING DEMOLISHED REINSPECTION. NO SUSPECT ACBM REINSPECTION. NO SUSPECT ACBM

> BUILDING NAME

COMMENTS

### Asbestos Survey Master Building List

- φ ∞ Ν ω ω ω ω	3151 3153 3165 3170	3126 3128 3136 3137 3138 3140 3141	3069 3070 3074 3075 3085 3086 3086 3087
AIRCRAFT HANGER MAINTENANCE ADMINISTRATION HEALTH CLINIC FIRE RESCUE STOREHOUSE PUMP STATION SENTRY STATION	AIRCRAFT HANGER AIRCRAFT HANGER MAINTENANCE ADMINISTRATION PUMP STATION CONTROL TOWER	AIRCRAFT MAINT. ADMINISTRATIVE AIRFIELD OPNS ADMINISTRATION HP BOILER AIRCRAFT HANGER ADMINISTRATION	INSTRUCTION INSTRUCTION STOREHOUSE GAS CHAMBER UNKNOWN INSTRUCTION INSTRUCTION STOREHOUSE
REINSPECTION. REINSPECTION REINSPECTION REINSPECTION REINSPECTION. NO SUSPECT ACBM REINSPECTION. NO SUSPECT ACBM REINSPECTION. NO SUSPECT ACBM FIRST TIME INSPECTION.	REINSPECTION REINSPECTION REINSPECTION REINSPECTION FIRST TIME INSPECTION. NO SUSPECT ACBM REINSPECTION	REINSPECTION REINSPECTION REINSPECTION REINSPECTION REINSPECTION FIRST TIME INSPECTION REINSPECTION. NO SUSPECT ACBM FIRST TIME INSPECTION (PART OF BUILDING 3140)	REINSPECTION REINSPECTION FIRST TIME INSPECTION. NO SUSPECT ACBM FIRST TIME INSPECTION. NO SUSPECT ACBM BUILDING DEMOLISHED REINSPECTION. NO SUSPECT ACBM REINSPECTION. NO SUSPECT ACBM FIRST TIME INSPECTION. NO SUSPECT ACBM

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BLDG	SAMPLE	RISK	MO7	HIGH	MATERIAL	ROOM	
NUMBER	NUMBER	INDEX	COST	COST	TYPE	USE	COMMENTS
**	11 11 11 11 11 11 11 11 11 11 11 11 11	14 11 11 11	H H H H H H H H	11 11 11 11 11 11			
212	P797	7.7	400.00	750.00	ABOVE C/AT	BATHROOM	PIH
1150	84	147	00.00	00.00	TANK INSULATION		
1150	98	147	0.00	00.00	TANK INSULATION		
1150	B5	147	00.00	00.00	TANK INSULATION		
1442	P23313	142	420.00	560.00	FLEXIBLE DUCT CONNECTORS		
1442	P23335	142	420.00	560.00	FLEXIBLE DUCT CONNECTORS		
191	P364	138	1344.00	1728.00	FLOOR COVERING		
66	ь6	133	4.00	6.00	DEBRIS		
358	P27	133	240.00	320.00	AIRDUCT MATERIAL		
1017	999B	133	150.00	200.00	PIPE JOINTS		
334	P1877	133	300.00	450.00	DEBRIS		
205	P14	129	2.00	3.00	DEBRIS		
211	P517	124	120.00	160.00	HARD JOINTS		
1146	P6	115	140.00	262.50	STRAIGHT PIPE INSULSTION		
. 66	P4	115	645.00	860.00	PIPE JOINTS		
66	P3	115	200.00	375.00	STRAIGHT PIPE INSULATION		
66	P5	115	80.00	144.00	BOILER JACKET		
1146	P6A	115	0.00	00.00	STRAIGHT PIPE INSULSTSION		
701	P6	115	375.00	500.00	PIPE JOINTS		
701	P5A	115	0.00	00.00	STRAIGHT PIPE INSULATION		
240	P9A	115	1628.00	3052.50	STRAIGHT PIPE INSULATION		
357	P1318	113	192.50	247.50	FLOOR TILE (CARPET OVER TILE)		
210	104	113	00.00	00.00	BROWN		
318	P1531	113	4350.00	5655.00	ACOUSTICAL CEILING TILE		
357	P1327	113	00.00	00.00	FLOOR TILE (CARPET OVER TILE)		
210	105	113	0.00	00.00	BROWN		
187	P393	111	. 16.00	30.00	STRAIGHT PIPE INSULATION		
1440	P23292	107	6288.00	10480.00	CEILING COVERING		

BLDG NUMBER	SAMPLE NUMBER	RISK INDEX	LOW	нібн соѕт	MATERIAL TYPE	ROOM USE	COMMENTS
	                	15 19 15 11	11 14 16 11 11 11 11 11				
	P1166	106	120.00	160.00	GASKET		
	A7	102	2.00	3.00	DEBRIS		
	P13	102	270.00	360.00	PIPE JOINTS		
	P13A	102	0.00	00.00	PIPE JOINTS		
358	P32	101	77000.00	99000.00	FLOOR TILE		
	P2044	101	4.00	00.9	DEBRIS		
	P1236	97	48.00	90.00	STRAIGHT PIPE		
	P2	97	540.00	720.00	PIPE JOINTS		
	B7	97	00.00	00.00	ELBOWS		
	81	97	1232.00	2310.00	STRAIGHT PIPE INSULATION		
	86	97	0.00	00.00	ELBOWS		
	B5	6	375.00	500.00	ELBOWS		
	103	95	3.60	4.20	BOILER TANK INSULATION		
	P3A	95	0.00	00.00	SPRAY ON CEILING		
	Р3	92	18750.00	31250.00	SPRAY ON CEILING		
	S1	98	4.00	6.00	DEBRIS ON DIRT FLOOR		
	P1335	93	270.00	360.00	PIPE JOINT INSULATION		
	P5	95	6562.50	8437.50	FLOOR TILE		
	P6	95	0.00	0.00	FLOOR TILE		
	P6	95	165.00	220.00	PIPE JOINT		
	P9	95	0.00	0.00	PIPE JOINT (IN ATTIC)		
	Р7	95	2.00	3.00	DEBRIS		
	999A	95	200.00	375.00	STRAIGHT PIPE		
	999A	88	96.00	180.00	STRAIGHT PIPE		
	P1558	88	414.00	483.00	BOILER/TANK INSULATION		
	P1562	88	225.00	300.00	FITTINGS (T'S, ELBOW'S, VALVES)		
	P1559	88	00.00	0.00	BOILER/TANK INSULATION		
	P15	88	15.00	20.00	PIPE JOINT		

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Asbestos Survey Rank Individual Area	by Risk Index	(Immediate Hazards First)
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COMMENTS							,																						
ROOM USE														•															
MATERIAL TYPE		DEBRIS	AIRDUCT MATERIAL	PIPE JOINT INSULATION	PIPE JOINT INSULATION	FLOOR TILE	TRANSITE WALLBOARD	AIRCELL RISER	STRAIGHT PIPE	FLOOR TILE	PATCHING MATERIAL	FLOOR TILE	FIRE DOORS	FLEXIBLE CONNECTORS	CORRIGATED PIPE	FIRE DOOR	FLOOR TILE	FLOOR TILE	DEBRIS	DEBRIS	HARD JOINTS	PIPE JOINTS	FLOOR TILE	HARD JOINTS					
HIGH COST		45.00	320.00	0.00	1240.00	1071.00	14.40	15.00	30.00	11610.00	0.00	2250.00	2385.00	0.00	00.00	12.50	0.00	900.00	160.00	45.00	2775.00	0.00	3928,50	6.00	00.00	00.00	60.00	2250.00	2020.00
LOW	80 81 81 81 81 81 81 81 81 81 81	30.00	240.00	00.00	930.00	833.00	11.70	8.00	16.00	9030.00	00.00	1750.00	1855.00	00.00	00.00	10.00	00.00	600.00	120.00	24.00	1850.00	0.00	3055.50	4.00	0.00	0.00	45.00	1750.00	1515.00
RISK INDEX	## ## ## ##	88	88	83	88	88	88	88	88	98	86	98	98	86	86	98	83	83	83	83	83	83	83	83	83	80	80	80	80
SAMPLE NUMBER		P1564	P28	P16	P15	P10	P999A	999A	203	P2	P9	Р1	р.	P1A	P3	Р7	P2144	. 9898	P5	102	999A	P2143	P2059	Р8	P10	P16A	8666	999A	P16
BLDG NUMBER	11 11 11 11 11 11 11 11	309	358	1200	1200	745	66	247	332	741	741	745	190	190	741	374	362	1416	3066	210	2470	362	362	1146	1146	214	256	1499	214

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COMMENTS																													
ROOM USE																													•
MATERIAL TYPE		PIPE JOINTS	PIPE JOINTS		PIPE JOINTS	PLASTER	FIRE DOORS	STRAIGHT PIPE INSULATION	FITTINGS AND ELBOWS	FITTINGS AND ELBOWS	FIRE DOORS	STRAIGHT PIPE INSULATION	STRAIGHT PIPE	ROPE INSULATION	PIPE JOINT INSULATION	PIPE JOINT INSULATION	GYPSUM BOARD	PIPE JOINT INSULATION	STRAIGHT PIPE INSULATION	GASKET	DEBRIS IN ATTIC	TRANSITE WALLBOARD	STRAIGHT PIPE INSULATION	STRAIGHT PIPE INSULATION					
нісн Созт	11 14 14 15 15 16 16 17	700.00	00.00	0.00	21420.00	2000.00	225.00	0.00	500.00	0.00	2850.00	450.00	0.00	375.00	937.50	937.50	3052.50	2250.00	80.00	00.00	0.00	0.00	200.00	00.00	80.00	30.00	3540.00	00.00	00.00
LOW		525.00	00.00	00.00	16065.00	1200.00	150.00	00.00	375.00	0.00	1900.00	240.00	0.00	200.00	500.00	500.00	1628.00	1200.00	00.09	0.00	0.00	0.00	150.00	0.00	60.00	20.00	2876.25	0.00	0.00
RISK INDEX		80	80	80	80	80	11	11	11	11	11	11	11	77	11	11	11	11	75	74	74	74	74	74	74	74	74	74	74
SAMPLE NUMBER	14 18 19 19 10 10 10 11	104	105	106	P47	PS	999A	103	P2042	P2043	999A	101	102	P5	P11A	P11	P9	999A	P15	83	82	Р7	81	B9	810	P1405	P380	88	87
BLDG NUMBER	11 11 11 11 11 11 12 12 13	1195	1195	1195	808	3065	950	366	362	362	1442	366	366	701	240	240	240	708	745	1150	1150	1962	1150	1150	1150	268	187	1150	1150

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		COMMENTS																												
	ROOM	USE																				٠								
(Immediate Hazards First)	MATERIAL	TYPE		TANK INSULATION	TANK INSULATION	FLOOR TILE .	FLOOR TILE	FLOOR TILE	CEILING TILE	CEILING TILE	CEILING TILE	PIPE JOINT	STRAIGHT PIPE	INSULATION-AIRCELL	ROPE GASKET	FIXTURE PAPER	FIRE DOORS	STRAIGHT PIPE INSULATION	FIRE DOORS	FLEXIBLE DUCT CONNECTOR	DEBRIS	DEBRIS	SHEET VINYL	FLOOR TILE	INNER INSULATION	INNER INSULATION	STRAIGHT PIPE	ELBOWS	PAPER	FIRE DOOR
mI)	ндн	COST		0.00	264.60	0.00	13207.50	00.00	63605.10	00.00	0.00	20.00	247.50		00.00	11.00	600.00	232.50	375.00	80.00	240.00	255.00	972.00	472.50	1359.00	0.00	225.00	200.00	82.50	75.00
	MOT	COST	11 11 11 11 11 11 11 11 11 11 11 11 11	0.00	226.80	00.00	10272.50	00.00	48927.00	00.00	00.00	15.00	132.00		00.00	10.00	400.00	124.00	250.00	60.00	160.00	170.00	756.00	367.50	755.00	00.0	120.00	150.00	44.00	20.00
	RISK	INDEX		74	74	72	72	72	7.1	7.1	71	7.1	71		7.1	7.1	7.1	89	89	89	89	89	89	89	99	99	65	65	65	65
	SAMPLE	NUMBER	11 11 11 11 12 13 13 14 15 17	P23312	P23311	P1333	P769	P783	P104	P202	P301	107	P516		102	P1000X	3666	P23036	999A	P23276	899A	8666	P2	P2	P22	P22A	P1645	P1646	104	999A
	BLDG	NUMBER	11 11 11 11 11 11 11	1442	1442	213	213	213	399	399	399	1471	211		332	2118	1017	1126	3231	1030	314	435	631	190	1200	1200	315	315	1471	210

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BLDG NUMBER	SAMPLE NUMBER	RISK INDEX	LOW WOL	HIGH COST	MATERIAL TYPE .	ROOM USE	COMMENTS
H H H H H H H H H H H H H H H H H H H		61 11 14 14	H = = = = = = = = = = = = = = = = = = =	## ## ## ## ## ## ##			
	•						
321	B1	65	8.00	15.00	PRESSED PAPER WITHIN WALL.		
					PAPER WRAPPED		
3066	P3	65	1200.00	2000.00	PLASTER		
1445	999A	65	8200.00	12300.00	FIRE DOORS (NEW)		
3066	102	65	00.00	0.00	COATING OVER GYPSUM BOARD		
321	P2207	65	2020.50	2626.65	ACOUSTICAL CEILING TILE		
3066	101	65	16992.00	25488.00	COATING OVER GYPSUM BOARD		
240	B4	65	0.00	00.00	STRAIGHT PIPE INSULATION		
240	B3	65	0.00	00.00	STRAIGHT PIPE INSULATION		
240	B2	65	00.00	0.00	STRAIGHT PIPE INSULATION		
3138	110	65	48.00	90.00	STRAIGHT PIPE INSULATION		
3138	111	65	00.00	00.00	STRAIGHT PIPE INSULATION		
231	101	65	255.00	340.00	PIPE JOINTS		
231	102	65	00.00	0.00	PIPE JOINTS		
211	P504	64	10136.00	13032.00	WHITE/BEIGE		
316	P1800	64	80.00	150.00	PIPE INSULATION		
203	999A	62	100.00	150.00	FIRE DOOR		
203	P285	62	100.00	150.00	FIRE DOOR		
3137	9888	62	100.00	150.00	FIRE DOORS		
211	999A	62	200.00	300.00	WOOD FIRE DOORS		
1935	104	62	4.00	7.50	STRAIGHT PIPE		
326	P854	62	16093.00	20691.00	FLOOR TILE		
315	P1642	62	36750.00	47775.00	CEILING TILE		
326	P994	62	00.00	0.00	FLOOR TILE		
326	P865	62	00.00	00.00	FLOOR TILE		
326	P864	62	00.00	00.00	FLOOR TILE		
326	P863	62	00.00	0.00	FLOOR TILE		
326	P859	62	00.00	00.00	FLOOR TILE		

BLDG	SAMPLE	RISK	M07	HIGH	MATERIAL	ROOM	COMMENTS
NUMBEK	NUMBER	INDEX	COSI	1502			
326	P855	62	0.00	0.00	FLOOR TILE		
326	P856	62	00.00	0.00	FLOOR TILE		
326	P857	29	0.00	00.00	FLOOR TILE		
326	P861	29	00.00	0.00	FLOOR TILE		
374	999A	29	2.00	3.00	DEBRIS		
435	999A	29	640.00	1200.00	STRAIGHT PIPE INSULATION		
3137	P23157	62	450.00	600.00	PIPE JOINTS, HARD		
1908	P10	29	60.00	80.00	GASKET AT WALL PENETRATION		
240	P12A	61	00.00	00.00	PIPE JOINT		
240	P10A	61	0.00	00.00	PIPE JOINT		
240	P12	61	00.00	00.00	PIPE JOINT		
240	P10	61	2910.00	3880.00	PIPE JOINTS		
1108	P23012	9	1305.50	1678.50	FLOOR TILE		
1475	P14	09	2784.00	4640.00	PLASTER		
314	P1594	59	270.00	360.00	ELBOWS		
318	999A	29	50.00	75.00	FIRE DOOR		
318	101	59	1080.00	1404.00	ACOUSTICAL WALL TILE		
1475	999A	29	100.00	150.00	FIRE DOOR		
2593	P1000X	59	950.00	1425.00	FIRE DOORS		
1907	P117	59	48.00	66.00	AIRCELL		
20	B1	59	410.00	738.00	FLUE INSULATION		
332	202	59	0.00	0.00	TANK INSULATION		
332	P1237	59	150.00	200.00	PIPE JOINTS		
210	999B	28	120.00	160.00	FLEXIBLE DUCT CONNECTOR		
219	P1302	27	0.00	00.00	PIPE JOINT INSULATION		
219	P1301	27	105.00	140.00	PIPE JOINT INSULATION		
1084	106	99	00.00	00.00	WALL CORK		
3234	989A	99	100.00	150.00	FIRE DOOR		

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BLDG NUMBER	SAMPLE NUMBER	RISK INDEX	LOW	HIGH COST	MATERIAL TYPE	ROOM USE	COMMENTS
	11 12 12 13 14 14	I# 		10 12 14 15 15 16 16 18 18			
808	P208	54	0.00	0.00	PIPE JOINTS .		
808	P313	54	0.00	00.00	PIPE JOINTS		
808	P216	54	0.00	00.00	PIPE JOINTS		
1475	P1000X	54	00.09	80.00	FLEXIBLE DUCT CONNECTOR		
2593	P1000Y	54	960.00	1280.00	FLEXIBLE CONNECTORS		
354	P1928	53	72.00	84.00	BOILER/TANK INSULATION		
207	999B	53	120.00	160.00	ELBOW FITTINGS		
354	P1930	53	0.00	0.00	FITTINGS (ELBOWS, VALVES)		
354	P1929	53	0.00	0.00	FITTINGS (ELBOWS, VALVES)		
357	P1083	23	60.00	80.00	FLEXIBLE DUCT CONNECTOR		
212	999A	53	120.00	160.00	FLEXIBLE DUCT CONNECTOR		
2470	P11	53	14.40	16.80	TANK INSULATION		
1023	999A	53	200.00	300.00	FIRE DOORS		
354	P1921	23	420.00	560.00	FITTINGS (ELBOWS, VALVES)		
1906	101	53	60.00	80.00	ROPE GASKET		
714	P16	55	0.00	0.00	STRAIGHT PIPE INSULATION		
317	P2273	52	0.00	0.00	FLOOR TILE		
314	P1591	52	0.00	0.00	FLOOR TILE		
212	P791	52	10290.00	13230.00	WHITE/BROWN STREAK		
1824	A1	52	120.00	160.00	PIPE JOINTS ALONG CEILING		
317	P2272	52	2590.00	3330.00	FLOOR TILE		
317	P2282	52	0.00	0.00	FLOOR TILE		
1824	A2	52	0.00	0.00	PIPE JOINTS ALONG CEILING		
950	2666	52	60.00	80.00	FLEXIBLE DUCT CONNECTOR		
1824	A3	52	75.00	100.00	PIPE JOINTS ALONG CEILING		
314	P1580	55	3458.00	4446.00	FLOOR TILE		
314	P1592	55	00.00	0.00	FLOOR TILE		
314	P1595	52	00.00	0.00	FLOOR TILE		

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Asbesto	Rank Indi	

SAMPLE NUMBER	RISK INDEX	LOW WOJ	HIGH COST	MATERIAL TYPE	ROOM USE	COMMENTS
			•			
	20	1300.00	1950.00	FIRE DOORS (NEW)		
	50	14625.00	17550.00	GYBSUM BOARD		
	50	0.00	0.00	GYPSUM BOARD		
	50	175.00	225.00	TAR PAPER ON DUCT		
	50	600.00	900.00	FIRE DOORS		
	50	148.00	277.50	STRAIGHT PIPE INSULATION		
				AIRCELL		
	50	50.00	75.00	FIRE DOOR		
	50	00.00	00.00	GYPSUM BOARD		
	50	910.00	1170.00	FLOOR TILE		
	50	00.00	00.00	GYPSUM BOARD		
	50	62.50	75.00	GYPSUM BOARD		
	50	26950.00	32340.00	GYPSUM BOARD		
	50	420.00	560.00	AIRDUCT MATERIAL		
	48	00.00	00.00	DUCT INSULATION		
	48	00.00	00.00	DUCT INSULATION		
	48	800.00	1100.00	DUCT INSULATION		
	48	195.00	260.00	MUD JOINTS		
	48	195.00	260.00	MUD JOINTS		
	48	195.00	260.00	MUD JOINTS		
	48	60.00	80.00	FLEXIBLE DUCT CONNECTOR		
	47	180.00	240.00	FLEXIBLE DUCT CONNECTOR		
	47	520.00	975.00	STRAIGHT PIPE INSULATION		
	47	50.00	75.00	FIRE DOOR		
	47	100.00	150.00	FIRE DOORS		
	47	175.50	216.00	TRANSITE WALLBOARD ADDED		
	47	00.00	0.00	STRAIGHT PIPE INSULATION		
	47	12800.00	19200.00	FIRE DOORS		

Asbestos Survey	Rank Individual Area	by Risk Index	(Immediate Hazards First)
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COMMENTS

ROOM USE																											
MATERIAL TYPE	AIRCELL, METAL CASING SPLIT & DAMAGED .	FIRE DOORS	FLEXIBLE DUCT CONNECTOR	FIRE DOORS	FLOOR TILE	FLOOR TILE	FLOOR COVERING	FIRE DOORS	FLEXIBLE DUCT CONNECTOR	FLEXIBLE CONNECTOR	TRANSITE WALLBOARD	TANK INSULATION	TANK INSULATION	TANK INSULATION	AIRCELL ABOVE DROP CEILING	MASTIC (TILE REMOVED)	FLOOR TILE	ELBOWS	MASTIC (ASBESTOS FLOOR TILE	REMOVED)	TRANSITE WALLBOARD	TRANSITE WALLBOARD	PIPE JOINT INSULATION	PIPE JOINT INSULATION	TRANSITE WALLBOARD	FIRE DOORS	FLEXIBLE CONNECTOR
HIGH	3000.00	1125.00	320.00	225.00	810.00	3285.00	52209.00	450.00	160.00	160.00	60.00	0.00	00.00	714.00	450.00	3650.00	810.00	00.00	00.00		4800.00	5040.00	00.00	160.00	1056.00	1050.00	80.00
LOW	1600.00	750.00	240.00	150.00	630.00	2555.00	40607.00	300.00	120.00	120.00	48.75	0.00	0.00	612.00	240.00	2190.00	630.00	0.00	0.00		3900.00	4095.00	0.00	120.00	858.00	700.00	60.00
RISK INDEX	47	47	47	47	46	46	45	44	44	44	44	43	43	43	43	43	43	43	43		42	42	42	42	41	41	41
SAMPLE NUMBER	р7	999A	999A	P1000X	P12	P2	P1049	999A	P524	P1682	999A	P7A	P78	Р7	P5	201	999A	P4	202	•	P1000X	Р7	P28	P2A	P1250	999A	P1000X
BLDG NUMBER	1949	305	1440	1469	705	705	357	1001	211	805	1138	231	231	231	1920	201	348	1426	201		745	1089	202	202	219	3165	98

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COMMENTS	11  1  1  1  1																												
ROOM USE																													
MATERIAL TYPE		TANK INSULATION	ACOUSTICAL CEILING TILE	AIRCELL ON WALLS	TANK INSULATION	CEILING TILE (ABOVE DROP	CEILING)	FIRE DOORS	WALL BOARD	FIRE DOORS	STRAIGHT PIPE	TRANSITE BOARD	TRANSITE WALL BOARD	FLOOR TILE	FLOOR TILE	PIPE JOINTS ABOVE DROP CEILING	FIRE DOORS	FLEXIBLE CONNECTOR	FLOOR TILE	FLEXIBLE CONNECTOR	PIPE JOINT INSULATION	PIPE JOINT INSULATION	STRAIGHT PIPE INSULATION	STRAIGHT PIPE INSULATION	TANK INSULATION	STRAIGHT PIPE	PIPE JOINTS	INSULLATION ON DUCT	STRAIGHT PIPE
HIGH COST		1079.40	1170.00	60.00	0.00	352.95		375.00	168686.40	150.00	525.00	360.00	11040.00	8370.00	0.00	200.00	225.00	80.00	8842.50	80.00	1560.00	00.0	1050.00	0.00	100.80	300.00	00.00	1237.50	00.00
LOW COST	H H H H H H H H	925.20	900.00	48.75	0.00	271.50		250.00	137057.70	100.00	280.00	292.50	8970.00	6510.00	0.00	150.00	150.00	60.00	6877.50	60.00	1170.00	0.00	560.00	00.00	86.40	160.00	0.00	900.00	0.00
RISK INDEX	12 11 11 11	41	41	41	41	41		41	41	41	40	40	40	40	40	38	38	38	38	38	38	38	38	38	38	38	38	38	38
SAMPLE NUMBER	11 11 11 11 11 11 14 14 14	108	P3	P12	109	P1883		2666	P1075	999A	P1593	P1840	P145	P2	P8	P6	999A	999A	P2	P1000X	P5	P1303	P4	P4A	P1669	P12	P5A	999A	P12A
BLDG NUMBER	tt 19 10 10 10 10 10 10 10 10 10 10 10 10 10	3138	240	1901	3138	334		1471	357	1467	314	305	331	701	701	1920	1812	1961	3234	1922	205	219	205	205	801	1017	205	808	1017

12

COMMENTS	## ## ## ## ## ## ## ## ## ## ## ## ##																												
ROOM USE																													
MATERIAL TYPE		FLOOR TILE	VINYL FLOOR TILE	FLOOR TILE	FLOOR TILE	FLOOR TILE	VINYL FLOOR TILE	FLOOR TILE	VINYL FLOOR TILE	VINYL FLOOR TILE	TANK INSULATION	GASKETS .	TRANSITE BOARD	STRAIGHT PIPE INSULATION	FLOOR TILE	PIPE FITTINGS	FLOOR TILE	FLOOR TILE											
HIGH COST	11 14 14 15 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	0.00	0.00	90.00	33390.00	0.00	13500.00	0.00	0.00	75451.50	0.00	5872.50	12906.00	00.00	0.00	0.00	0.00	0.00	0.00	14674.50	0.00	0.00	80.00	19809.60	510.00	13887.00	240.00	0.00	9270.00
LOW	11 11 14 14 14 14 14 14 14 15	0.00	00.00	70.00	25970.00	00.00	10500.00	00.00	00.00	58684.50	00.00	4567.50	10038.00	00.00	0.00	0.00	00.00	0.00	0.00	11413.50	0.00	0.00	00.09	16095.30	272.00	10801.00	180.00	0.00	7210.00
RISK INDEX	13 13 13 14 14	38	38	38	38	38	38	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	35	35	35	35	35	35	35
SAMPLE NUMBER		P11	P12	Р7	P8	. P19	P6	P730	P2	p1	Р7	P708	P2	P722	P726	P13	P12	Р3	Р7	P5	P6	P1000X	P2	P1000Z	P23014	2666	P23015	P1704	P1683
BLDG NUMBER	11 11 11 11 11 11	1200	1200	1416	1200	1200	1416	210	1475	1475	1475	210	2470	210	210	3231	3231	3231	3231	3231	3231	1017	1906	3231	1108	246	1108	805	805

BLDG	SAMPLE	RISK	MO'I	HIGH	MATERIAL	ROOM	
NUMBER	NUMBER	INDEX	COST	COST	TYPE	USE	COMMENTS
11 11 11 11 11	#######################################	H H H H		H H H H H			
220	P13	35	450.00	00.009	PIPE JOINTS		
361	999A	35	50.00	75.00	FIRE DOOR		
714	P15	35	24.00	45.00	STRAIGHT PIPE INSULATION		
3145	9666	35	250.00	375.00	FIRE DOOR		
268	P1407	35	1304.00	2445.00	STRAIGHT PIPE INSULATION		
3165	102	35	10.50	13.50	FLOOR TILE		
269	999A	35	250.00	375.00	FIRE DOORS		
268	P1412	35	00.00	00.00	STRAIGHT PIPE INSULATION		
268	P1416	35	00.00	00.00	STRAIGHT PIPE INSULATION		
3126	P2	35	15326.50	19705.50	FLOOR TILE		
3126	P3	35	00.00	00.00	FLOOR TILE		
1824	A4	35	48.00	90.00	STRAIGHT PIPE ABOVE CEILING		
1824	A5	35	00.0	00.00	STRAIGHT PIPE ABOVE CEILING		
1412	999A	35	350.00	525.00	FIRE DOOR		
1030	999A	35	300.00	450.00	FIRE DOORS		
1824	A6	35	96.00	180.00	STRAIGHT PIPE ABOVE CEILING		
2593	P1	34	77126.00	99162.00	FLOOR TILE		
205	999A	34	650.00	975.00	FIRE DOORS		
1099	999A	34	3.90	4.80			
1950	P1188	34	2400.00	4500.00	AIRCELL METAL CASING IS		
					DAMAGED		
1499	109	34	300.00	400.00	ELBOWS		
246	0666	33	350.00	450.00	FLOOR TILE		
808	P22	33	00.00	00.00	FLOOR TILE		
808	P23	33	00.00	00.00	FLOOR TILE		
808	P309	33	00.00	00.00	FLOOR TILE		
808	P412	33	00.00	00.00	FLOOR TILE		
808	P218	33	00.0	00.00	FLOOR TILE		

COMMENTS																													
ROOM USE																													
MATERIAL TYPE		FLOOR TILE	FIRE DOOR	ELBOWS	ELBOWS	FLOOR TILE	STRAIGHT PIPE INSULATION	FIRE DOOR	TRANSITE WALLBOARD	PIPE JOINTS	PIPE JOINTS	PIPE JOINTS																	
HIGH COST		0.00	0.00	0.00	0.00	51480.00	00.00	00.00	357646.50	00.00	0.00	00.00	0.00	0.00	0.00	0.00	2250.00	00.0	0.00	600.00	00.0	160.00	2520.00	360.00	75.00	2544.00	1140.00	00.00	00.00
LOW		00.0	00.0	0.00	0.00	40040.00	00.00	0.00	278169.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1750.00	0.00	0.00	400.00	0.00	120.00	1960.00	192.00	50.00	2067.00	855.00	0.00	0.00
RISK INDEX	12 12 12 13	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	32	32	32	32	32	32	32	32	32	32
SAMPLE NUMBER	 	P11	P10	P211	ЬЭ	P8	P506	P14	P13	P15	P15A	P205	P16	P20	P160	P17	P2	P18	0666	P1000X	P10A	P10	P3	P1300	999A	P1000X	P1404	P1408	P1411
BLDG NUMBER	11 15 16 18 18 18 18 18 18 18	1017	1017	808	1017	1017	808	808	808	808	808	808	808	808	808	808	246	808	950	399	226	226	2118	219	190	708	268	268	268

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COMMENTS																													-
ROOM USE																													
MATERIAL TYPE		PIPE JOINTS	AIRCELL	AIRCELL STRAIGHT PIPE	AIRCELL	PIPE JOINTS ABOVE CEILING	PIPE JOINTS ABOVE CIELING	STRAIGHT PIPE ABOVE CEILING	FIRE DOORS	PIPE JOINTS	FLOOR TILE	TRANSITE SIDING	FLOOR TILE		WALL COVERING					LIGHT FIXTURE PAPER	FLOOR TILE	FLOOR TILE	FLOOR TILE.	FLOOR TILE	FLOOR TILE				
HIGH COST		0.00	450.00	1275.00	00.00	300.00	0.00	37.50	300.00	340.00	8964.00	81996.00	157.50	9432.00	11250.00	0.00	157.50	0.00	19800.00	53842.50	0.00	0.00	0.00	203.50	0.00	0.00	450.00	1512.00	1863.00
LOW	## ## ## ## ## ## ## ## ## ## ## ## ##	00.00	240.00	680.00	00.00	225.00	00.00	20.00	200.00	255.00	6972.00	66621.75	122.50	7336.00	8750.00	00.00	122.50	00.00	15400.00	41877.50	00.00	00.00	00.00	185.00	00.00	00.00	350.00	1176.00	1449.00
RISK INDEX		32	32	32	32	32	32	32	32	32	32	31	31	31	31	31	31	30	30	30	30	30	30	30	30	30	30	30	30
SAMPLE NUMBER		P1415	P835	P23156	P836	P834	P837	899A	999A	6d	999A	P8	P1	3666	P1	PIA	P8	P2416	P867	P2411	P2417	P2415	P2412	P16	P1016	P23162	999A	3666	P1
BLDG NUMBER		268	257	3137	257	257	257	256	741	714	1697	498	246	246	1962	1962	1961	1099	322	1099	1099	1099	1099	1017	331	3137	3137	1916	1491

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COMMENTS	# # # # # # # # # # # # # # # # # # #																												
ROOM USE																													
MATERIAL TYPE		FLOOR TILE	FLOOR TILE	FLOOR TILE	FLOOR COVERING	FLOOR COVERING	FLOOR TILE	FLOOR TILE	FLOOR TILE	FLOOR TILE	FIRE DOORS	FLOOR TILE	FLOOR TILE	ELBOWS	FLOOR TILE	FIRE DOOR	FLOOR TILE	FIRE DOORS	FLOOR TILE	FLOOR TILE	FIRE DOOR	FIRE DOOR	FLEXIBLE DUCT CONNECTOR	FLEX CONNECTOR	FLOOR TILE	FLOOR TILE	FLOOR TILE	FLOOR TILE	ELBOWS
HIGH COST	11 11 11 11 11 11 11 11	00.00	0.00	0.00	00.00	00.00	0.00	00.00	51750.00	00.00	450.00	160879.50	00.00	1500.00	697.50	600.00	00.00	11400.00	31500.00	2030.00	225.00	75.00	160.00	80.00	00.00	00.00	2592.00	198324.00	00.00
LSO3		0.00	0.00	0.00	0.00	00.0	0.00	0.00	40250.00	0.00	300.00	125128.50	0.00	1125.00	542.50	400.00	0.00	7600.00	24500.00	1218.00	150.00	50.00	120.00	60.00	0.00	0.00	2016.00	154252.00	0.00
RISK INDEX	11 11 11 11 11	30	30	30	30	30	30	30	30	30	59	59	53	59	29	53	53	53	59	59	59	59	28	28	28	28	28	28	28
SAMPLE NUMBER	1) 11 11 11 14 12 12 12 13	P1017	P1329	P1021	P1054	P1050	P1018	P1020	P574	P1015	999A	P1	P105	P2	P1	999A	P200	999A	РЗ	PI	999A	999A	999A	999A	P2048	P2047	. P45	P1A	107
BLDG NUMBER	## ## ## ## ## ##	331	331	331	357	357	331	331	331	331	331	399	399	1426	1469	315	399	1466	1189	1189	3151	712	240	1024	362	362	807	2593	366

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COMMENTS	
ROOM USE	
MATERIAL TYPE	FLOOR TILE FLOOR TILE BROWN FLOOR TILE EXPOSED MASTIC EXPOSED MASTIC STRAIGHT PIPE STRAIGHT PIPE STRAIGHT PIPE TRANSITE WALLBOARD TAR WRAP FLOOR TILE
HIGH COST	0.00 3069.00 10165.50 3321.00 250.00 250.00 4725.00 0.00 2700.00 60.00 0.00 314100.00 0.00 936.00 0.00 1350.00 7591.50 0.00 22.50 0.00 22.50 0.00
LOD	0.00 2387.00 7906.50 2583.00 300.00 150.00 2520.00 . 0.00 1755.00 0.00 244300.00 0.00 720.00 0.00 1050.00 17.50 0.00 18904.50 0.00
RISK INDEX	28 28 27 27 26 26 26 26 26 26 26 26 26 26 26 26 26
SAMPLE NUMBER	P18 999B P1 P2045 102 101 P1 P2007 P23007 P23008 P21 P2008 P1 P23008 P1 P23008 P1 P23008 P1 P23008 P1 P23008 P1 P20 P23168 P1630 P264
BLDG NUMBER	2593 1471 235 362 1464 1464 1426 1426 1426 220 220 220 220 220 220 220 3151 3151 3151 3151 3151 3151 3151 315

COMMENTS	
RODM USE	
MATERIAL TYPE	FLOOR COVERING FLOOR TILE FIRE DOORS FLOOR TILE FIRE DOORS FLOOR TILE FIRE DOOR FLOOR TILE FLOOR TILE VINYL FLOOR TILE VINYL FLOOR TILE VINYL FLOOR TILE VINYL FLOOR TILE
HIGH COST	900.00 300.00 300.00 1710.00 0.00 375.00 0.00 0.00 0.00 41692.50 0.00 0.00 0.00 0.00 0.00 0.00 0.00
	700.00 0.00 200.00 1330.00 0.00 250.00 12183.50 0.00 0.00 0.00 0.00 0.00 32427.50 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RISK INDEX	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
SAMPLE NUMBER =======	P2290 P2222 999A 999A P1640 999A P2213 P2213 P2213 P2217 P275 P275 P276 P278 P278 P278 P278 P279 P271 P271 P271 P271 P271 P271 P271 P271
BLDG NUMBER	317 320 3069 11187 315 3070 320 320 320 203 203 203 203 203 203 20

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COMMENTS																													
ROOM USE																													
MATERIAL TYPE		FLOOR TILE	TRANSITE WALLBOARD	FLOOR TILE	PIPE JOINTS	FLOOR TILE	PIPE JOINTS	FLOOR TILE	FLOOR. TILE	FLOOR TILE	FLOOR TILE UNDER CARPET	FLOOR TILE UNDER CARPET	FLOOR TILE	TRANSITE	FLEXIBLE CONNECTOR	BROWN/WHITE													
HIGH COST	H	54450.00	0.00	2650.50	15075.00	00.00	192.00	5737.50	0.00	0.00	0.00	0.00	0.00	6187.50	200.00	0.00	922.50	108.00	12708.00	0.00	486.00	123750.00	14040.00	90300.00	00.00	7443.00	468.00	80.00	246973.50
LOW COST		42350.00	00.00	2061.50	11725.00	00.00	156.00	4462.50	00.00	00.0	00.00	00.0	00.00	4812.50	150.00	00.00	717.50	84.00	9884.00	00.00	378.00	96250.00	10920.00	70700.00	00.0	5789.00	380.25	60.00	192090.50
RISK INDEX	H H H H	25	22	52	52	25	52	25	52	25	25	25	52	52	52	25	52	25	52	25	24	24	24	24	24	24	24	24	24
SAMPLE NUMBER		23	P1359	106	P1	P4	P8	P1358	P1365	P1362	107	P1361	P7A	P3	Р7	P330	PI	999A	P6	Р7	PI	P1	PI	P23321	P23324	999A	P1000X	8666	P1
BLDG NUMBER	11 11 14 18 18 18 11 11	193	215	3138	1169	193	1931	215	215	215	3138	215	1146	1961	1146	20	374	507	1412	1412	1490	392	3065	1442	1442	2590	1426	1185	1466

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Indivi	(Immediate Hazards First)

COMMENTS																													
ROOM USE																													
MATERIAL TYPE		FLOOR TILE	FLOOR TILE	FLOOR TILE	FLOOR TILE	PIPE JOINTS	FLOOR TILE	FLOOR TILE	FLOOR TILE	STRAIGHT PIPE INSULATION	BROWN/WHITE	FLOOR TILE	FIRE DOOR	FIRE DOOR	FIRE DOOR	INSULATION ON FLUE PIPE	FLOOR TILE	FIRE DOORS	FLOOR TILE	FIRE DOORS		FLOOR TILE	FIRE DOORS	FIRE DOORS	FLOOR TILE	FIRE DOORS	FIRE DOORS	FLOOR TILE	FLOOR TILE
нібн СОST		4320.00	360.00	1404.00	17721.00	1400.00	3690.00	360.00	189000.00	1800.00	00.00	29272.50	450.00	75.00	525.00	5.50	6300.00	1650.00	81.00	300.00	2448.00	81.00	225.00	225.00	00.00	525.00	525.00	29700.00	19431.00
LOW		3360.00	280.00	1092.00	13783.00	1050.00	2870.00	280.00	113400.00	960.00	00.00	22767.50	300.00	50.00	350.00	4.00	4900.00	1100.00	63.00	200.00	1989.00	63.00	150.00	150.00	00.00	350.00	350.00	23100.00	15113.00
RISK INDEX		24	24	24	24	24	24	24	24	24	24	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
SAMPLE NUMBER	86 10 10 10 10 10 10 10 10 10 10 10 10	P1	P9	P11	999A	ь 8	P10	Р3	999A	P111	P2	P23002	999A	P1000Z	999A	P11	P2	999A	P10	P1000X	P2413	P1	999A	999A	P2245	999A	999A	999A	P2246
BLDG NUMBER	11 11 10 10 10 11 11 11 11 11	1953	1968	1968	1498	1189	1968	2115	2592	220	1466	3151	3232	708	365	1834	1199	3235	1193	1962	1099	1193	216	3237	325	505	506	1822	325

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BLDG	SAMPLE	RISK	row	HIGH	MATERIAL	ROOM	
NUMBER	NUMBER	INDEX	COST	COST	TYPE	USE	COMMENTS
	***************************************	## ## ##	11 11 11 11 11 11 11		11 计非线线 经收货 计分子 经存款 医外侧线 医皮肤		11 14 54 13 14 14 14 14
324	999A	23	1200.00	1800.00	FIRE DOORS		
312	999A	23	200.00	300.00	FIRE DOORS		
1467	Ь6	23	28.00	36.00	FLOOR TILE		
358	999A	23	150.00	225.00	FIRE DOOR'S		
325	P2248	23	0.00	0.00	FLOOR TILE		
380	P6	23	1925.00	2475.00	FLOOR TILE		
1185	999A	23	210.00	270.00	FLOOR TILE		
325	P2249	23	0.00	0.00	FLOOR TILE		
316	999A	23	50.00	75.00	FIRE DOOR		
317	999A	23	200.00	300.00	FIRE DOOR		
362	999A	23	450.00	675.00	FIRE DOORS		
303	999A	22	7392.00	9504.00	FLOOR TILE		
2476	P2	22	645.00	860.00	PIPE JOINTS		
1439	999A	22	4900.00	6300.00	FLOOR TILE		
329	P1911	22	0.00	0.00	FLOOR TILE		
324	P1534	22	38493.00	47376.00	TRANSITE WALL COVERING		
329	P1909	22	9310.00	11970.00	FLOOR TILE		
312	P1826	22	1750.00	2250.00	FLOOR TILE		
312	P1827	22	00.00	0.00	FLOOR TILE		
3066	P6	22	10423.00	13401.00	FLOOR TILE		
361	P5	22	00.00	0.00	FLOOR TILE		
1001	P931	22	00.00	0.00	FLOOR TILE		
324	P2296	22	00.00	0.00	TRANSITE WALL COVERING		
1001	P930	22	34650.00	44550.00	FLOOR TILE		
3136	P2464	22	39795.00	51165.00	FLOOR TILE		
361	P3	22	3850.00	4950.00	FLOOR TILE		
316	999B	22	105.00	135.00	FLOOR TILE		
329	P1910	22	00.00	0.00	FLOOR TILE		

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S Z II	SAMPLE NUMBER	RISK INDEX	TS00	н1GH СОST	MATERIAL TYPE	ROOM USE	COMMENTS
2A		22	00.00	00.00	PIPE JOINTS		
1802		22	68449.50	88006.50	FLOOR TILE		
1803		22	0.00	00.00	FLOOR TILE		
1805		22	0.00	00.00	FLOOR TILE		
99A		22	574.00	738.00	FLOOR TILE UNDER CARPET		
P1809		22	0.00	00.00	FLOOR TILE		
936		22	0.00	00.00	FLOOR TILE		
937		22	0.00	00.00	FLOOR TILE		
2271		22	0.00	00.00	FLOOR TILE		
2283		22	0.00	00.00	FLOOR TILE		
2210		22	42.00	54.00	FLOOR TILE		
2268		22	6884.50	8851.50	FLOOR TILE		
2291		22	00.00	00.00	FLOOR TILE	٠	
99B		22	1400.00	1800.00	FLOOR TILE		
2229	_	22	00.00	00.00	FLOOR TILE		
2223		22	2730.00	3510.00	FLOOR TILE		
194		22	343.00	441.00	GRAY		
339		22	101.50	130.50	GRAY		
<u>-</u>		22	52500.00	67500.00	FLOOR TILE		
338		22	1837.50	2362.50	TAN		
199		22	175.00	225.00	BLUE		
172		22	105.00	135.00	PINK		
က္		22	16365.00	27275.00	MASTIC UNDER TILE		
3A		22	0.00	00.00	MASTIC UNDER TILE		
169		22	4970.00	6390.00	TAN		
99B		22	11375.00	14625.00	FLOOR TILE		
170		22	51975.00	66825.00	WHITE		
183		22	54022.50	69457.50	PINK		

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BLDG NUMBER	SAMPLE	RISK INDEX	LOW COST	HIGH COST	MATERIAL TYPE	ROOM USE	COMMENTS
11 11 11 11 11 11 11		15 14 15 15 15	22 23 24 24 24 24 24 24 24 24 24 24 24 24 24				11 11 11 14 14
323	999A	22	420.00	540.00	FLOOR TILE		
247	P174	22	177310.00	227970.00	BROWN		
1499	108	22	300.00	400.00	PIPE VALVES		
226	P6	22	3220.00	4140.00	FLOOR TILE		
950	Р7	22	612.50	787.50	FLOOR TILE		
226	P6A	22	0.00	00.00	FLOOR TILE		
329	999A	22	7350.00	9450.00	FLOOR TILE		
365	999B	22	700.00	900.00	FLOOR TILE		
1499	107	22	300.00	400.00	ELBOWS		
187	P385	21	2233.00	2871.00	FLOOR TILE		
258	999A	21	1400.00	1800.00	FLOOR TILE		
187	P386	21	0.00	00.00	FLOOR TILE		
191	999A	21	22400.00	28800.00	NEW FLOOR TILE OVER OLD GREEN		
					9X9 TILE		
202	P13	21	1050.00	1350.00	FLOOR TILE		
3232	P10	21	0.00	00.00	FLOOR TILE		
3232	р7	21	4028.50	5179.50	FLOOR TILE		
3232	P8	21	2940.00	3780.00	FLOOR TILE		
204	999A	21	1750.00	2250.00	FLOOR TILE		
1834	P4	21	4375.00	5625.00	FLOOR TILE		
189	999A	21	2887.50	3712.50	NEW FLOOR TILE		
705	999A	21	1008.00	1296.00	FLOOR TILE		
20	P331	21	7.00	9.00	FLOOR TILE		
20	P318	21	2005.50	2578.50	FLOOR TILE		
1834	P3	21	1312.50	1687.50	FLOOR TILE		
20	P335	21	0.00	00.00	FLOOR TILE		
207	3666	21	2800.00	3600.00	FLOOR TILE		
714	8666	21	273.00	351.00	FLOOR TILE		

BLDG NUMBER	SAMPLE NUMBER	RISK INDEX	LOW COST	HIGH COST	MATERIAL TYPE	ROOM USE	COMMENTS
55 10 40 41 11 11 11 11	11 11 11 11 11	11 11 11 11					
707	999B	21	525.00	675.00	FLOOR TILE		
81	999A	21	1575.00	2025.00	FLOOR TILE		
340	999A	21	4725.00	6075.00	FLOOR TILE		
205	999B	21	595.00	765.00	FLOOR TILE		
222	999A	21	227.50	292.50	FLOOR TILE		
80	999A	21	560.00	720.00	FLOOR TILE		
221	999A	21	231.00	297.00	FLOOR TILE		
246	999A	21	910.00	1170.00	FLOOR TILE		
1917	999A	21	4427.50	5692.50	FLOOR TILE		
3126	999A	21	150.00	225.00	FIRE DOORS		
353	P1978	21	2345.00	3015.00	FLOOR TILE		
2436	101	21	78.00	96.00	TRANSITE WALLBOARD		
353	P1979	21	0.00	00.00	FLOOR TILE		
354	P1925	21	973.00	1251.00	FLOOR TILE		
1154	999A	21	147.00	189.00	FLOOR TILE		
354	P1926	21	0.00	00.00	FLOOR TILE		
3066		21	58.50	72.00	TRANSITE WALLBOARD		
354	P1923	21	0.00	00.00	FLOOR TILE		
508	999A	21	2100.00	2700.00	FLOOR TILE		
1494	999A	21	1400.00	1800.00	FLOOR TILE		
508	P1939	21	52.50	67.50	VINYL SHEET FLOORING		
1907	P119	21	504.00	648.00	FLOOR TILE		
204	8666	20	250.00	375.00	FIRE DOORS		
1000	106	20	0.00	00.00	STRAIGHT PIPE		
1464	999A	20	3900.00	5850.00	FIRE DOORS		
202	999A	20	100.00	150.00	FIRE DOOR		
1000	105	20	0.00	00.00	STRAIGHT PIPE		
1000	104	50	560.00	1050.00	STRAIGHT PIPE	•	

Asbestos Survey	Rank Individual Area	by Risk Index
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(Immediate Hazards First)

BLDG NUMBER	SAMPLE NUMBER	RISK INDEX	LOW COST	HIGH COST	MATERIAL TYPE	ROOM USE	COMMENTS
H H H H H H	                     	-   -   -   -   -   -	H H H H H H	## ## ## ## ## ## ## ## ## ## ## ## ##			
3153	999A	20	50.00	75.00	FIRE DOOR		
2592	105	20	00.00	00.00	FLOOR MASTIC		
630	999A	20	100.00	150.00	FIRE DOORS		
704	P1000Y	20	50.00	75.00	FIRE DOOR		
1968	P8	20	180.00	300.00	MASTIC		
1193	P1000X	20	200.00	300.00	FIRE DOOR		
7395	999A	20	787.50	1012.50	FLOOR TILE		
193	999A	20	250.00	375.00	FIRE DOORS		
1155	999A	20	38185.00	49095.00	REPLACEMENT TILE		
1908	999A	20	300.00	450.00	FIRE DOORS		
1196	999A	20	50.00	75.00	FIRE DOOR		
1186	P1	20	7245.00	9315.00	FLOOR TILE		
950	P1	20	195.00	260.00	3/4"WATER,1" & 5" HEATING		
305	P1845	20	00.00	00.00	FLOOR TILE		
331	P1022	20	910.00	1170.00	FLOOR COVERING		
470	P8C	20	00.00	0.00	FLOOR TILE		
307	P1388	20	1242.50	1597.50	FLOOR TILE		
305	P1847	20	00.00	0.00	FLOOR TILE		
315	P1643	20	300.00	500.00	MASTIC		
1133	999A	20	50.00	75.00	FIRE DOOR		
307	P1389	20	00.00	00.00	FLOOR TILE		
366	999A	20	00.0	00.00	FLOOR TILE		
309	P1577	20	00.00	00.00	FLOOR TILE		
309	P1567	20	00.00	00.00	FLOOR TILE		
309	P1570	20	00.00	0.00	FLOOR TILE		
1804	A1	20	200.00	375.00	AIRCELL		
1804	A2	20	200.00	375.00	AIRCELL		
1804	A3	20	00.00	0.00	AIRCELL		

COMMENTS																9X9 FLOOR TILE	9X9 FLOOR TILE			9X9 FLOOR TILE									
ROOM USE																													
MATERIAL TYPE		FLOOR TILE	FLOOR TILE	TAR WRAP AC COMPRESSOR	FIRE DOOR	FLOOR TILE	FLOOR TILE	VINYL SHEET	FLOOR TILE	VINYL SHEET	FLOOR TILE	FIRE DOORS	FIRE DOOR	FIRE DOORS	FIRE DOORS	FLOOR TILE	FLOOR TILE	FIRE DOORS	FIRE DOORS	FLOOR TILE	FLOOR TILE	FLOOR TILE	TAR SPACKLING ON FIBERGLASS	FLOOR TILE UNDER CARPET & TILE	FLOOR TILE UNDER CARPET &	UNDER TILE	FIRE DOORS	FLOOR TILE	FLOOR TILE
нтан соsт	11 11 14 14 11 11	00.00	135000.00	30.00	75.00	2448.00	18342.00	0.00	00.00	0.00	14008.50	1125.00	75.00	150.00	375.00	0.00	0.00	150.00	150.00	26118.00	540.00	499.50	12.50	0.00	22720.50		150.00	8640.00	27000.00
LOW	H H H H H H H H H	00.00	105000.00	24.00	50.00	1904.00	14266.00	0.00	0.00	0.00	10895.50	750.00	50.00	100.00	250.00	0.00	0.00	100.00	100.00	20314.00	420.00	388.50	10.00	0.00	17671.50		100.00	6720.00	21000.00
RISK INDEX	14 16 18 18 18	20	50	20	20	50	20	50	50	20	50	50	50	50	20	50	50	50	20	50	19	19	19	19	19		19	19	19
SAMPLE NUMBER		P1706	P1842	101	8666	P1566	P23215	P15A	P23226	P15	999A	999A	999A	999A	9888	P2016	P2018	999A	3666	P2015	999A	999A	P23140	P23350	P23343		8666	999A	999A
BLDG NUMBER	11 14 14 14 16 16 18 18 18 18 18 18	309	305	950	1154	309	1436	470	1436	470	2591	1809	1819	1934	1813	335	335	1805	1938	335	509	3128	3136	1464	1464		1916	1952	2101

COMMENTS	# ####################################																												
ROOM USE																												-	
MATERIAL TYPE		FLOOR TILE	FLEXIBLE CONNECTOR	FLEXIBLE CONNECTORS	FLOOR TILE	FLOOR TILE	FLOOR TILE	FIRE DOORS	FLOOR TILE	FLOOR TILE	FLOOR TILE	STRAIGHT PIPE INSULATION	FLOOR TILE	TAR ON WALLS & CEILING	FLOOR TILE	FLEXIBLE CONNECTORS	TAR PAPER ON CEILING	TAR PAPER ON CEILING	TAR PAPER ON CEILING	TAR ON WALLS & CEILING	PIPE JOINTS								
HIGH COST	H H H H H H	1138.50	2511.00	00.00	5625.00	2925.00	28800.00	1827.00	450.00	648.00	80.00	80.00	2700.00	540.00	990.00	450.00	675.00	1656.00	3698.00	277.50	540.00	0.00	900.00	240.00	0.00	00.00	8986, 50	00.00	860.00
LOW	***************************************	885.50	1953.00	0.00	4375.00	2275.00	22400.00	1421.00	350.00	504.00	60.00	00.09	2100.00	420.00	770.00	300.00	525.00	1288.00	2877.00	148.00	420.00	0.00	700.00	180.00	0.00	0.00	6989.50	00.00	645.00
RISK INDEX	H H H H	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	18	18	18	18	18	18	18	18	18	18
SAMPLE NUMBER	## ## ## ## ## ## ## ## ## ## ## ## ##	999A	P6	P2A	P5	P2023	8666	P23027	P2025	9666	P1000X	8666	999A	P2	P1185	999A	P3	P1	P2	P12	999A	111	P1	P1000X	105	104	103	112	107
BLDG NUMBER	14 11 14 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	1938	1911	1802	1922	509	191	1109	509	3153	1931	1837	1084	1146	1950	498	214	1970	1802	745	1142	1084	712	2120	1084	1084	1084	1084	1498

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BLDG NUMBER	SAMPLE NUMBER	RISK INDEX	LOW WOJ	HIGH COST	MATERIAL TYPE	ROOM USE	COMMENTS
		11 14 11 11	## ## ## ## ## ## ## ## ## ## ## ## ##	# # # # # # #			
1,408	108	ά	00 0	00	STN101. HOTE	٠	
1498	109	18	0.00	0.00	PIPE JOINTS		
2991	101	18	19.50	24.00	TRANSITE WALLBOARD AT FLUE		
2594	999A	18	22344.00	28728.00	FLOOR TILE		
1498	110	18	00.00	0.00	PIPE JOINTS		
372	P4	18	0.00	0.00	FLOOR TILE		
1915	999B	18	60.00	80.00	CANVAS CONNECTOR		
372	P2	18	00.00	0.00	FLOOR TILE		
372	P1	18	10220.00	13140.00	FLOOR TILE		
808	P1000Y	18	540.00	720.00	FLEXIBLE CONNECTORS		
1195	110	18	00.00	00.00			
1194	999A	18	2327.50	2992.50	FLOOR TILE		
1195	111	18	00.00	0.00			
1195	109	18	180.00	337.50	STRAIGHT PIPE		
808	P213	17	96.00	160.00	MASTIC		
808	P1000W	17	117.00	144.00	TRANSITE WALL PANELS		
1826	999A	17	250.00	375.00	FIRE DOORS		
2592	8666	17	50.00	75.00	FIRE DOORS		
1834	999A	17	100.00	150.00	FIRE DOORS		
1837	999A	17	50.00	75.00	FIRE DOOR		
1970	P1000X	17	150.00	225.00	FIRE DOORS		
740	Р3	17	441.00	567.00	FLOOR TILE		
1113	P2514	17	18375.00	23625.00	FLOOR TILE		
1113	P2515	17	00.00	00.00	FLOOR TILE		
1113	P2516	17	0.00	00.00	FLOOR TILE		
1962	P10A	17	960.00	1800.00	AIRCELL		
1810	999A	17	450.00	675.00	FIRE DOORS		
1426	999A	17	180.00	240.00	CONNECTORS		

Asbestos Survey Rank Individual Area	by Risk Index	(Immediate Hazards First)
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COMMENTS

ROOM USE																													
MATERIAL TYPE		FIRE DOOR	FIRE DOOR	FIRE DOORS	FIRE DOORS	FLOOR TILE	FIRE DOORS	FLOOR TILE COVERED BY CARPET	VINYL FLOOR TILE UNDER CARPET	VINYL FLOOR TILE UNDER CARPET	VINYL FLOOR TILE UNDER CARPET	TAR WRAP	VINYL FLOOR TILE UNDER CARPET	FLEXIBLE CONNECTOR	TAR WRAP	STRAIGHT PIPE	TRANSITE WALLBOARD	FLOOR TILE	FIRE DOORS	CEILING PLASTER	CEILING PLASTER	WALL AND CEILING TRANSITE	BOARD	TRANSITE WALLBOARD					
HIGH COST		750.00	1650.00	900.00	450.00	4590.00	750.00	5467.50	0.00	0.00	110011.50	00.09	0.00	80.00	60.00	14385.00	00.00	00.00	00.00	00.00	00.00	2834.40	41445.00	1200.00	7840.00	00.00	600.00		192.00
LOW	H H H H H H	500.00	1100.00	600.00	300.00	3570.00	500.00	4252.50	0.00	0.00	85564.50	48.00	0.00	60.00	48.00	7672.00	0.00	0.00	0.00	0.00	0.00	2302.95	32235.00	800.00	4704.00	0.00	487.50		156.00
RISK INDEX	51 12 13 14 14	17	17	17	17	17	17	17	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	15	15	15		15
SAMPLE NUMBER		999A	P1000X	P1000X	999A	P8	999A	999A	P251	P246	P245	104	P249	999A	103	P36	P112	P43	P166	P115	P207	P4	999A	999A	P1551	P1556	P1000X		P11
BLDG NUMBER	11 61 12 13 14 14 14 14	357	470	392	307	380	309	1912	201	201	201	1030	201	1916	1030	808	808	808	808	808	808	1812	1425	815	270	270	1153		1901

BLDG	SAMPLE	RISK	MOT	нын	MATERIAL	ROOM	
NUMBER	NUMBER	INDEX	COST	COST	TYPE	USE	COMMENTS
		## ## ## ## ## ## ## ## ## ## ## ## ##					 
1802	P4	15	420.00	540.00	FLOOR TILE		
1018	РЗ	15	24199.00	31113.00	FLOOR TILE		
1018	P8	15	0.00	00.00	FLOOR TILE		
1917	9666	15	60.00	80.00	FLEXIBLE CONNECTOR		
920	999B	15	95.00	104.50	LIGHT FIXTURE PAPER		
1428	P23219	15	2849.00	3663.00	FLOOR TILE		
1903	104	15	78.00	96.00	TRANSITE WALLBOARD		
1917	106	15	19.50	24.00	TRANSITE WALLBOARD		
1831	P23120	15	1190.00	1530.00	FLOOR TILE		
1813	999A	15	60.00	80.00	FLEXIBLE CONNECTOR		
1428	P23220	15	1221.00	2035.00	MASTIC		
1806	999A	15	5152.00	6624.00	FLOOR TILE		
3145	P2	14	15368.50	19759.50	FLOOR TILE		
1949	999A	14	50.00	75.00	FIRE DOOR		
1017	106	14	40.00	50.00	PATCHING MATERIAL ON ROOF		
					DRAIN		
1025	999A	14	15064.00	19368.00	FLOOR TILE		
2118	P2	14	1428.00	2380.00	MASTIC		
806	P57	14	7.00	9.00	FLOOR TILE		
1902	P15	14	336.00	432.00	FLOOR TILE		
2990	999A	14	250.00	375.00	FIRE DOORS		
1444	P2344	14	6300.00	8100.00	FLOOR TILE UNDER CARPET		
1911	P4	14	637.00	819.00	FLOOR TILE		
1911	P5	14	1953.00	2511.00	FLOOR TILE		
1902	P10	14	910.00	1170.00	FLOOR TILE		
2436	8666	14	10850.00	13950.00	FLOOR TILE		
1911	Р7	13	456.30	561.60	TRANSITE WALLBOARD, INCLUDES		

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COMMENTS

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ROOM USE	ii ii ii ii ii															-													
MATERIAL TYPE		FLEXIBLE CONNECTOR	TRANSITE WALLBOARD	TRANSITE WALL BOARD	TRANSITE WALLBOARD	FIRE DOORS	FIRE DOORS	FLEXIBLE CONNECTORS	FLEXIBLE CONNECTOR	FLOOR TILE	TAR WRAP	FLOOR TILE	TAR WRAP	TRANSITE WALLBOARD IN	STAIRWELLS	TRANSITE WALLBOARD	FLEXIBLE CONNECTORS	TRANSITE BOARD ABOVE CEILING	FLOOR TILE	FLOOR TILE	FLEXIBLE CONNECTOR	DUCT INSULATION	DUCT INSULATION	DUCT INSULATION					
HIGH COST		80.00	240.00	1800.00	153.60	450.00	900.00	160.00	160.00	00.00	1800.00	261.00	00.00	5026.50	00.00	100.00	00.00	00.00	921.60		448.80	560.00	540.00	20250.00	20250.00	80.00	1925.00	00.00	0.00
LOW	13 13 13 13 14 15 15 16 18 18 18	60.00	195.00	1462.50	124.80	300.00	600.00	120.00	120.00	0.00	1400.00	203.00	00.00	3909.50	0.00	80.00	00.00	0.00	748.80		364.65	420.00	438.75	15750.00	15750.00	00.09	1400.00	0.00	0.00
RISK INDEX	81 13 19 11 11	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	12		12	12	12	12	12	12	12	12	12
SAMPLE NUMBER		989B	P11	P991	P1	0666	8666	P1000X	P1000Z	P17	p4 .	999A	P12	P10	P11	101	P14	102	P4		P13	999A	P18	P4	P6	999B	108	109	110
BLDG NUMBER		1938	1902	326	1923	1903	2105	1834	707	714	740	715	714	714	714	1189	714	1189	81		80	3145	1822	3070	3069	2591	2591	2591	2591

BLDG	SAMPLE	RISK	M07	HIGH	MATERIAL	ROOM	COMBENTS
NOMBER	NOMBEK	INDEA		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	# # # # # # # # # # # # # #		
336	P1651	12	962.50	1237.50	FLOOR TILE (COVERED BY CARPET)		
334	P1885	12	0.00	00.00	FLOOR TILE		
309	P1575	12	15262.65	18784.80	TRANSITE WALLBOARD		
1902	P14	12	146.25	180.00	TRANSITE WALLBOARD		
334	P1884	12	112.00	144.00	FLOOR TILE		
1154	2666	12	81.90	100.80	TRANSITE WALLBOARD		
1148	P2	11	504.00	648.00	FLOOR TILE		
1147	P1	11	4053.00	6755.00	ONLY MASTIC IS POSITIVE		
184	999A	11	17500.00	22500.00	FLOOR TILE		
270	P2061	11	60.00	80.00	FLEXIBLE CONNECTOR		
182	999B	11	150.00	225.00	FIRE DOORS		
1950	999A	11	300.00	450.00	FIRE DOORS		
2594	989B	11	3900.00	5850.00	FIRE DOORS		
193	P11	11	1200.00	1560.00	ACOUSTICAL TILE ABOVE DROP		
					CEILING		
246	9888	11	400.00	600.00	FIRE DOORS		
81	P5	11	280.00	360.00	FLOOR TILE		
238	P1000X	10	1560.00	2080.00	FLEXIBLE CONNECTOR		
1901	Р7	10	1050.00	1350.00	FLOOR TILE		
707	999A	10	499.20	614.40	TRANSITE WALLBOARD		
1148	999A	10	468.00	576.00	TRANSITE WALLBOARD		
258	P587	10	10080.00	12960.00	FLOOR TILE		
3065	P1000X	10	72.00	120.00	TRANSITE PLASTER		
718	999A	10	39.00	48.00	TRANSITE BULK HEAD		
1903	899B	10	195.00	240.00	TRANSITE WALLBOARD AS PART OF		
					CEILING		
361	6d.	10	1755.00	2160.00	TRANSITE WALLBOARD		
353	999A	10	975.00	1200.00	TRANSITE WALLBOARD		

kank indlvidual Area by Risk Index (Immediate Hazards First)

KISK INDEX	LOW	HIGH COST	MATERIAL TYPE	ROOM USE	COMMENTS
# # # # # # # # # # # # # # # # # # # #	11 11 11 11 11 11 11 11	11 11 11 11 11 11 11			66 12 12 13 14 14 11 11 11 11
თ	7098.00	9126.00	FLOOR TILE		
တ	31.20	38.40	TRANSITE WALLBOARD		
တ	1200.00	2000.00	PLASTER		
6	1050.00	1350.00	FLOOR TILE		
6	2380.00	3060.00	FLOOR TILE		
6	1200.00	2000.00	PLASTER		
6	3594.50	4621.50	FLOOR TILE		
6	374.40	460.80	TRANSITE WALLBOARD		
O	109.20	134.40	TRANSITE WALLBOARD		
6	31.20	38.40	TRANSITE WALLBOARD		
6	936.00	1152.00	TRANSITE WALLBOARD		
6	195.00	240.00	NEW TRANSITE WALLBOARD		
6	300.00	450.00	FIRE DOORS	·	
80	4459.00	5733.00	FLOOR TILE		
80	702.00	864.00	TRANSITE BOARD		
80	100.00	150.00	FIRE DOORS		
80	1887.60	2323.20	TRANSITE WALLBOARD		
∞	3022.50	3720.00	TRANSITE WALLBOARD		
80	31.20	38.40	TRANSITE WALLBOARD		
æ	50.00	75.00	FIRE DOOR		
80	50.00	75.00	FIRE DOOR		
89	00.00	0.00	FLOOR TILE		
80	0.00	0.00	FLOOR TILE		
80	00.00	0.00	FLOOR TILE		
80	00.00	0.00	FLOOR TILE		
80	00.00	0.00	FLOOR TILE		
80	00.00	0.00	FLOOR TILE		
∞	32235.00	41445.00	FLOOR TILE		
	999A 999B 999B 999B 999B 999B 999B 999B		INDEX  INDEX  COST  =====  9 7098.00 99  31.20 9 1200.00 9 1200.00 9 3594.50 9 374.40 9 374.40 9 376.00 9 300.00 8 195.00 8 100.00 8 1887.60 8 50.00 8 60.00 8 60.00 8 60.00 8 702.00 8 702.00 8 702.00 8 702.00 8 702.00 8 702.00 8 702.00 8 700.00 8 700.00 8 700.00 8 700.00 8 700.00 8 700.00 8 700.00 8 700.00 8 700.00	100	INDEX

(Immediate Hazards First)

RISK LOW INDEX COST ===== ===============================
1155.00 50.00 11641.00
80.00
0.00
0.00 1291.50
97.50
100.00
0.00 15.60
4462.50
0.00
555.00
1365.00
15557.50 20002.50
23.40
23.40
42000.00 54000.00
4320.00 7200.00
1440.00
900.00 1500.00
100.00

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COMMENTS																													
ROOM USE																												٠	
MATERIAL TYPE		FIRE DOORS	MASTIC	FLU STACK INSULATION	FIRE DOORS	FIXTURE PAPER	TRANSITE WALLBOARD AROUND DOOR	AND SOFFIT	FIRE DOOR	FLOOR TILE	FLEXIBLE CONNECTOR	FLEXIBLE CONNECTORS	FLOOR TILE UNDER CARAPET	TRANSITE WALLBOARD	FIRE DOORS	SOFFIT	FLOOR TILE	DEBRIS	FIXTURE PAPER	FIRE DOOR	DEBRIS	FLOOR TILE	PIPE JOINTS	FLOOR TILE	FLOOR TILE	TRÀNSITE BOARD	INSULATION DEBRIS	FLEX CONNECTOR	FIRING RANGE DEBRIS
HIGH COST		150.00	7500.00	135.00	675.00	11.00	1531.20		75.00	2160.00	80.00	160.00	6165.00	720.00	225.00	1440.00	15750.00	3.00	11.00	75.00	150.00	40500.00	00.009	00.00	40837.50	840.00	00.9699	160.00	2520.00
LOW	11 11 11 11 11 11 11 11	100.00	4500.00	75.00	450.00	10.00	1244.10		50.00	1680.00	60.00	120.00	4795.00	585.00	150.00	1170.00	12250.00	2.00	10.00	50.00	100.00	31500.00	450.00	00.00	31762.50	682.50	4464.00	120.00	1680.00
RISK INDEX	60 51 51 51 51 51 51	9	9	9	2	2	5		2	5	5	5	4	4	4	4	က	7	<b>↔</b>	<b>←</b>	<b>~</b>	П			-		-		-
SAMPLE NUMBER	H H H H H H H	999A	P4	B3	999A	P1000X	999A		P1000X	999A	8666	999A	P3	P1000X	999A	999A	8666	81	9888	0666	2666	Р7	3666	P303	P1315	P1379	\$1	81	P291
BLDG NUMBER	); (1) (1) (1) (1) (1) (1) (1)	1108	1826	2592	20	1186	631		1146	701	3070	2436	1809	1169	714	629	1499	329	1001	507	507	498	435	399	257	215	7.08	399	203

by Risk Index (Immediate Hazards First)

9078	SAMPLE	RISK	ro <sub>M</sub>	HIGH	MATERIAL	ROOM	
NUMBER	NUMBER	INDEX	COST	COST	TYPE	USE	COMMENTS
11 15 16 16 18 19 19 11		11 11 11 11	## ## ## ## ## ## ##				19 11 11 11 11 11 11 11 11
1200	P999A		100.00	150.00	FIRE DOOR		
312	81	-	40.00	00.09	DEBRIS		
805	P1685		0.00	00.00	FLOOR TILE		
805	P1702		00.0	00.00	FLOOR TILE		
. 808	P1684		0.00	00.00	FLOOR TILE		
805	P1703		00.00	0.00	FLOOR TILE		
*** Total ***							

4683287.80 6114886.80

0 20 P331 20331 F6 FLOOR TILE 20 P335 20335 H4 FLOOR TILE 20 P335 20335 H4 FLOOR TILE 20 P330 20330 F6 FLOOR TILE 20 P330 20330 F6 FLOOR TILE 20 P318 20318 E5 FLOOR TILE 20 P328 20328 H6 FLOOR TILE	0 0 0 0 0 0 0 0 0 0 5 5 5 50
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 5 5
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 5 5
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 5 5
0       0         0       0         0       0         0       0         0       0         0       0         20       P331       20331       F6       FLOOR TILE         20       P335       20335       H4       FLOOR TILE         20       P330       20330       F6       FLOOR TILE         20       P318       20318       E5       FLOOR TILE         20       P328       20328       H6       FLOOR TILE         20       P328       20328       H6       FLOOR TILE         20       B1       165-01       F5       FLUE INSULATION         20       B3       165-03       F5       PATCHING MATERIAL         20       B2       165-02       F5       BLANKET INSULATION         20       P322       20322       D7       FLEXIBLE DUCT CONNECTOR	0 0 0 0 5 5
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 5 5 5
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 5 5 5
0       0         0       0         20       P331       20331       F6       FLOOR TILE         20       P335       20335       H4       FLOOR TILE         20       999A       ASSUMED       FIRE DOORS         20       P330       20330       F6       FLOOR TILE         20       P318       20318       E5       FLOOR TILE         20       P328       20328       H6       FLOOR TILE         20       B1       165-01       F5       FLUE INSULATION         20       B3       165-03       F5       PATCHING MATERIAL         20       B2       165-02       F5       BLANKET INSULATION         20       P322       20322       D7       FLEXIBLE DUCT CONNECTOR	0 5 5 50
0       0         20       P331       20331       F6       FLOOR TILE         20       P335       20335       H4       FLOOR TILE         20       999A       ASSUMED       FIRE DOORS         20       P330       20330       F6       FLOOR TILE         20       P318       20318       E5       FLOOR TILE         20       P328       20328       H6       FLOOR TILE         20       B1       165-01       F5       FLUE INSULATION         20       B3       165-03       F5       PATCHING MATERIAL         20       B2       165-02       F5       BLANKET INSULATION         20       P322       20322       D7       FLEXIBLE DUCT CONNECTOR	5 5 50
20       P331       20331       F6       FLOOR TILE         20       P335       20335       H4       FLOOR TILE         20       999A       ASSUMED       FIRE DOORS         20       P330       20330       F6       FLOOR TILE         20       P318       20318       E5       FLOOR TILE         20       P328       20328       H6       FLOOR TILE         20       B1       165-01       F5       FLUE INSULATION         20       B3       165-03       F5       PATCHING MATERIAL         20       B2       165-02       F5       BLANKET INSULATION         20       P322       20322       D7       FLEXIBLE DUCT CONNECTOR	5 50
20       P335       20335       H4       FLOOR TILE         20       999A       ASSUMED       FIRE DOORS         20       P330       20330       F6       FLOOR TILE         20       P318       20318       E5       FLOOR TILE         20       P328       20328       H6       FLOOR TILE         20       B1       165-01       F5       FLUE INSULATION         20       B3       165-03       F5       PATCHING MATERIAL         20       B2       165-02       F5       BLANKET INSULATION         20       P322       20322       D7       FLEXIBLE DUCT CONNECTOR	5 50
20       999A       ASSUMED       FIRE DOORS         20       P330       20330       F6       FLOOR TILE         20       P318       20318       E5       FLOOR TILE         20       P328       20328       H6       FLOOR TILE         20       B1       165-01       F5       FLUE INSULATION         20       B3       165-03       F5       PATCHING MATERIAL         20       B2       165-02       F5       BLANKET INSULATION         20       P322       20322       D7       FLEXIBLE DUCT CONNECTOR	50
20       P330       20330       F6       FLOOR TILE         20       P318       20318       E5       FLOOR TILE         20       P328       20328       H6       FLOOR TILE         20       B1       165-01       F5       FLUE INSULATION         20       B3       165-03       F5       PATCHING MATERIAL         20       B2       165-02       F5       BLANKET INSULATION         20       P322       20322       D7       FLEXIBLE DUCT CONNECTOR	
20       P318       20318       E5       FLOOR TILE         20       P328       20328       H6       FLOOR TILE         20       B1       165-01       F5       FLUE INSULATION         20       B3       165-03       F5       PATCHING MATERIAL         20       B2       165-02       F5       BLANKET INSULATION         20       P322       20322       D7       FLEXIBLE DUCT CONNECTOR	
20       P328       20328       H6       FLOOR TILE         20       B1       165-01       F5       FLUE INSULATION         20       B3       165-03       F5       PATCHING MATERIAL         20       B2       165-02       F5       BLANKET INSULATION         20       P322       20322       D7       FLEXIBLE DUCT CONNECTOR	5
20 B1 165-01 F5 FLUE INSULATION 20 B3 165-03 F5 PATCHING MATERIAL 20 B2 165-02 F5 BLANKET INSULATION 20 P322 20322 D7 FLEXIBLE DUCT CONNECTOR	5
20 B3 165-03 F5 PATCHING MATERIAL 20 B2 165-02 F5 BLANKET INSULATION 20 P322 20322 D7 FLEXIBLE DUCT CONNECTOR	15
20 B2 165-02 F5 BLANKET INSULATION 20 P322 20322 D7 FLEXIBLE DUCT CONNECTOR	0
20 P322 20322 D7 FLEXIBLE DUCT CONNECTOR	0
	0
80 P8 8008 I6 TRANSITE WALLBOARD	60
80 P13 8013 G7 TRANSITE WALLBOARD	65
80 999A ASSUMED H7 FLOOR TILE	0
81 999A ASSUMED E7 FLOOR TILE	0
81 P5 8105 E7 FLOOR TILE	2
81 P4 8104 E6 TRANSITE WALLBOARD IN STAIRWELLS	50
98 P1000X 9800X G3 FLEXIBLE CONNECTOR	3
99 P3 9903 F3 STRAIGHT PIPE INSULATION	65
99 P999A ASSUMED H5 TRANSITE WALLBOARD	50
99 P6 9906 G4 DEBRIS	10
99 P4 9904 F3 PIPE JOINTS	70
99 P5 9905 G4 BOILER JACKET	70
182 999B ASSUMED I5 FIRE DOORS	50
182 999A ASSUMED I4 TRANSITE BOARD ON FLOOR	50
184 999A ASSUMED B5 FLOOR TILE	5
187 P385 187385 J4 FLOOR TILE	5
187 P386 187386 J4 FLOOR TILE	1
187 P380 187380 D5 TRANSITE WALLBOARD	45
187 P393 187393 I6 STRAIGHT PIPE INSULATION	60
189 999A ASSUMED H4 NEW FLOOR TILE	5
190 P1 19001 D7 FLOOR TILE	4
190 P1A 19001A D5 FLOOR TILE	5
190 P2 19002 D6 FLOOR TILE	3
190 999A ASSUMED K5 FIRE DOOR	0
191 999B ASSUMED H3 FLOOR TILE	0
191 P364 191364 G7 FLOOR COVERING	55
191 999A ASSUMED H3 NEW FLOOR TILE OVER OLD GREEN 9X9 TILE	5
193 999A ASSUMED G5 FIRE DOORS	50
193 P3 19303 G6 FLOOR TILE	2
193 P4 19304 G5 FLOOR TILE	2

BLDG Number	SAMPLE NUMBER	LAB ID	CAD LOC	MATERIAL TYPE	TOTAL ASBESTOS
2222244	2222224	2222233	22200		
193	P11	19311	D4	ACOUSTICAL TILE ABOVE DROP CEILING	5
200	P413	200413	15	CEILING TILE	25
201	202	0037-02	H5	MASTIC (ASBESTOS FLOOR TILE REMOVED)	10
201	P246	201246	J6	VINYL FLOOR TILE UNDER CARPET	5
201	999A	ASSUMED	C6	FIRE DOORS (NEW)	50
201	P245	201245	J6	VINYL FLOOR TILE UNDER CARPET	5
201	P251	201251	J5	VINYL FLOOR TILE UNDER CARPET	5
201	P249	201249	F5	VINYL FLOOR TILE UNDER CARPET	5
201	201	0037-01	H5	MASTIC (TILE REMOVED)	10
202	P2A	20202A	17	PIPE JOINT INSULATION	20
202	P13	20213	Н6	FLOOR TILE	2
202	P2B	202028	B6	PIPE JOINT INSULATION	5
202	999A	ASSUMED	J5	FIRE DOOR	50
203 .	P285	203285	G5	FIRE DOOR	30
203	999A	ASSUMED	G5	FIRE DOOR	50
203	P291	203291	16	FIRING RANGE DEBRIS	60
203	P276	203276	K4	VINYL FLOOR TILE	5
203	P278	203278	G4	VINYL FLOOR TILE	5
203	.P264	203264	H4	VINYL FLOOR TILE	5
203	P274	203274	J4	VINYL FLOOR TILE	5
203	P271	203271	E4	VINYL FLOOR TILE	5
203	P275	203275	J4	VINYL FLOOR TILE	5
204	9998	ASSUMED	F6	FIRE DOORS	0
204	999A	ASSUMED	F5	FLOOR TILE	5
205	P5A	20505A	D5	PIPE JOINTS	0
205	999B	ASSUMED	G7	FLOOR TILE	0
205	P5	20505	F5	PIPE JOINT INSULATION	10
205	999A	ASSUMED	F6	FIRE DOORS	50
205	P14	20514	D5	DEBRIS	65
205	P9	20509	J6	FLOOR TILE	2
205	P12	20512	D5	FLOOR TILE	2
205	P4	20504	F5	STRAIGHT PIPE INSULATION	10
205	P4A	20504A	D5	STRAIGHT PIPE INSULATION	20
210	9998	ASSUMED	C5	FLEXIBLE DUCT CONNECTOR	50
210	101	0030-01	D6	BROWN PAPER	0
210	P730	210730	E5	VINYL FLOOR TILE	5
210	104	0030-04	D6	BROWN	2
210	105	0030-05	D6	BROWN	5
210	P722	210722	G6	VINYL FLOOR TILE	5
210	102	0030-02	D6	CORRIGATED PIPE	40
210	P726	210726	G4	VINYL FLOOR TILE	5
210	999A	ASSUMED	G4	FIRE DOOR	50
210	103	0030-03	D5	GRAY FLAT	0
210	P708	210708	G6	VINYL FLOOR TILE	5
211	P516	211516	Н6	STRAIGHT PIPE INSULATION-AIRCELL	20
211	P504	211504	Н4	WHITE/BEIGE	5
211	9 <b>99A</b>	ASSUMED	G4	WOOD FIRE DOORS	50
211	P517	211517	Н6	HARD JOINTS	60

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BLDG NUMBER	SAMPLE NUMBER	LAB ID	CAD LOC	MATERIAL TYPE	TOTAL ASBESTOS
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211	P524	211524	В6	FLEXIBLE DUCT CONNECTOR	70
212	P1335	2121335	15	PIPE JOINT INSULATION	60
212	P1336	2121336	15	STRAIGHT PIPE INSULATION AIRCELL	35
212	P797	212797	J6	ABOVE C/AT	45
212	99 <b>9A</b>	ASSUMED	K5	FLEXIBLE DUCT CONNECTOR	50
212	P791	212791	G5	WHITE/BROWN STREAK	5
213	999A	ASSUMED	F5	FIRE DOOR	50
213	P1333	2131333	F6	FLOOR TILE	5
213	P769	213769	J4	FLOOR TILE	5
213	P783	213783	F5	FLOOR TILE	5
213	201	029-01	G6	PLASTER	0
214	Р3	21403	J7	FLOOR TILE	2
214	P16	21416	D7	HARD JOINTS	65
214	P16A	21416A	D4	HARD JOINTS	70
215	P1359	2151359	H7	FLOOR TILE	5
215	P1361	2151361	G7	FLOOR TILE	10
215	P1365	2151365	G7	FLOOR TILE	5
215	P1362	2151362	G7	FLOOR TILE	5
215	P1358	2151358	H7	FLOOR TILE	5
215	P1379	2151379	Н6	TRANSITE BOARD	· 25
216	999A	ASSUMED	G5	FIRE DOORS	50
216	P11	21611	F8	FLOOR TILE	5
219	P1303	2191303	E5	PIPE JOINT INSULATION	20
219	P1300	2191300	E5	STRAIGHT PIPE INSULATION	45
219	P1302	2191302	E5	PIPE JOINT INSULATION	60
219	P1301	2191302	E5	PIPE JOINT INSULATION	60
219	P1250	2191250	J7	TRANSITE WALLBOARD	60
220	P19	22019	C6	FLOOR TILE	4
220	P20	22020	C6	FLOOR TILE	5
220	P21	22021	J5	FLOOR TILE	2
220	P11	22011	C5	STRAIGHT PIPE INSULATION	2
220	P13	22011	C5	PIPE JOINTS	80
221	999A	ASSUMED	F6	FLOOR TILE	0
222	999A	ASSUMED	F4	FLOOR TILE	0
	P5		F5	STRAIGHT PIPE INSULATION	5
226		22605			5
226	P10	22610	E6	ELBOWS	
226	P6A	22606A	F5	FLOOR TILE	2
226	999A	ASSUMED	I4	FIRE DOORS	50
226	P9	22609	E6	STRAIGHT PIPE INSULATION	5
226	P10A	22610A	E6	ELBOWS	5
226	P6	22606	F	FLOOR TILE	2
231	102	021-02	E7	PIPE JOINTS	5
231	P7B	23107B	C4	TANK INSULATION	59 70
231	P7A	23107A	C4	TANK INSULATION	70
231	P7	23107	C4	TANK INSULATION	70
231	101	021-01	E7	PIPE JOINTS	2
231	103	021-03	E7	TAR WRAP	0
235	P1	23501	E8	BROWN FLOOR TILE	2

BLDG NUMBER	SAMPLE NUMBER	LAB ID	CAD LOC	MATERIAL TYPE	TOTAL ASBESTOS
2022222	*******	=======================================	2022		
238	P1000X	23800X		FLEXIBLE CONNECTOR	3
240	Р3	24003	K3	ACOUSTICAL CEILING TILE	65
240	B1	177-01	F7	STRAIGHT PIPE INSULATION	65
240	B2	177-02	E5	STRAIGHT PIPE INSULATION	36
240	Р6	24006	17	TRANSITE WALLBOARD	45
240	P12A	24012A	K5	PIPE JOINT	65
240	P12	24012	K5	PIPE JOINT	65
240	P11A	24011A	K5	STRAIGHT PIPE INSULATION	15
240	P9	24009	B6	STRAIGHT PIPE INSULATION	10
240	P10	24010	В6	PIPE JOINTS	65
240	999A	ASSUMED	J5	FLEXIBLE DUCT CONNECTOR	50
240	B4	177-04	D6	STRAIGHT PIPE INSULATION	45
240	999B	ASSUMED	J4	FIRE DOOR	50
240	B5 ·	177-05	F5	ELBOWS	65
240	P9A	24009A	В6	STRAIGHT PIPE INSULATION	65
240	В3	177-03	E5	STRAIGHT PIPE INSULATION	40
240	P10A	24010A	В6	PIPE JOINT	65
240	86	177-06	F6	ELBOWS	. 65
240	P11	24011	K5	STRAIGHT PIPE INSULATION	15
240	В7	177-07	D5	ELBOWS	65
246	P2	24602	G6	FLOOR TILE	0
246	999C	ASSUMED	C2	FLOOR TILE	5
246	P1	24601	17	FLOOR TILE	2
246	999B	ASSUMED	C3	FIRE DOORS	50
246	999E	ASSUMED	C2	FLOOR TILE	5
246	999A	ASSUMED	C2	FLOOR TILE	5
246	999D	ASSUMED	C2	FLOOR TILE	5
247	999B	ASSUMED	D2	FIRE DOORS	0
247	P183	247183	F2	PINK	5
247	P199	247199	B9	BLUE	10
247	P172	247172	E4	PINK	5
247	P174	247174	E5	BROWN	10
247	P339	247339	G6	GRAY	15
247	P338	247338	E2	TAN	10
247	999A	ASSUMED	F6	AIRCELL RISER	0
247	P194	247194	Н6	GRAY	10
247	P170	247170	E4	WHITE	5
247	P169	247169	C3	TAN	5
256	999B	ASSUMED	G6	PIPE JOINTS	20
256	999A	ASSUMED	G6	STRAIGHT PIPE ABOVE CEILING	15
257	P834	257834	E5	PIPE JOINTS ABOVE CEILING	35
257	P837	050988	E5	PIPE JOINTS ABOVE CIELING	45
257	P835	257835	E5	AIRCELL	10
257	P836	257836	E5	AIRCELL	15
257	P1315	2571315	C5	FLOOR TILE	10
258	P587	2571313	F6	FLOOR TILE	5
258	P590	258590	D5	FLOOR TILE	25
258	P586	258586	D6	MASTIC	5

BLDG NUMBER	SAMPLE NUMBER	LAB ID	CAD LOC	MATERIAL TYPE	TOTAL ASBESTOS
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258	999A	ASSUMED	C4	FLOOR TILE	5
268	P1416	2681416	K5	STRAIGHT PIPE INSULATION	10
268	P1405	2681405	C5	DEBRIS IN ATTIC	5
268	P1404	2681404	C5	PIPE JOINTS	5
268	P1408	2681408	E4	PIPE JOINTS	35
268	P141·1	2681411	H4	PIPE JOINTS	30
268	P1415	2681415	H4	PIPE JOINTS	20
268	P1407	2681407	E4	STRAIGHT PIPE INSULATION	45
268	P1412	2681412	H4	STRAIGHT PIPE INSULATION	10
269	B1	030-01	15	FLOOR TILE	0
269	82	030-02	G5	CEILING PLASTER	0
269	B3	030-03	E5	FLOOR TAR PAPER	0
269	101	030-04	C5	FLOOR MASTIC	0
269	102	030-05	E4	FLOOR MASTIC	0
269	201	030-06	K5	CEILING PLASTER	0
269	202	030-07	K7	DEBRIS	0
269	. 203	030-08	G5	CEILING PLASTER	0
269	999A	ASSUMED	D5	FIRE DOORS	50
270	P1553	2701553	E4	FLOOR TILE	5
270	P1548	2701548	E5	FLOOR TILE	. 1
270	P1556	2701556	C5	CEILING PLASTER	. 5
270	· P2061	2702061	D5	FLEXIBLE CONNECTOR	50
270	P1551	2702551	C5	CEILING PLASTER	5
270	P1549	2701531	E6	FLOOR TILE	1
270	P1552	2701549	F4	FLOOR TILE	1
270	999A	ASSUMED	H5	FIRE DOORS	50
303	999A		по В4	FLOOR TILE	5
		ASSUMED			
303	102	022-02	G5	ACOUSTICAL CEILING TILE	0
303	101	022-01	B6	ACOUSTICAL CEEILING TILE	0
303	103	022-3	K6	ACOUSTICAL CEILING TILE	0
305	999A	ASSUMED	F5	FIRE DOORS	50
305	P1847	3051847	G4	FLOOR TILE	5
305	P1842	3051842	E4	FLOOR TILE	5
305	P1845	3051845	G5	FLOOR TILE	5
305	P1840	3051840	F5	TRANSITE BOARD	15
307	P1389	3071389	F6	FLOOR TILE	5
307	999A	ASSUMED	D5	FIRE DOORS	50
307	101	09-100	D4		0
307	P1388	3071388	D7	FLOOR TILE	5
309	P1577	3091577	E8	FLOOR TILE	5
309	P1567	3091567	F5	FLOOR TILE	5
309	P1570	3091570	E8	FLOOR TILE	5
309	P1706	3091706	F4	FLOOR TILE	5
309	P1558	3091558	F2	BOILER/TANK INSULATION	40
309	P1559	3091559	F3	BOILER/TANK INSULATION	. 50
309	P1562	3091562	F2	FITTINGS (T'S, ELBOW'S, VALVES)	5
309	P1564	3091564	E3	DEBRIS	45
309	999A	ASSUMED	D6	FIRE DOORS	50

BLDG NUMBER	SAMPLE NUMBER	LAB ID	CAD LOC	MATERIAL TYPE	TOTAL ASBESTOS
22232222	********	*****	=====		
309	P1569	3091569	F6	FLOOR COVERING	5
309	P1566	3091566	G6	FLOOR TILE	5
309	P1575	3091575	F7	TRANSITE WALLBOARD	35
312	P1826	3121826	L6	FLOOR TILE	5
312	P1827	3121827	L6	FLOOR TILE	5
312	B1	0024-01	I4	DEBRIS	5
312	999A	ASSUMED	G6	FIRE DOORS	50
314	999A	ASSUMED	18	DEBRIS	50
314	P1591	3141591	D5	FLOOR TILE	5
314	P1580	3411580	J5	FLOOR TILE	5
314	P1592	3141592	D5	FLOOR TILE	5
314	P1593	3141593	C6	STRAIGHT PIPE	35
314	P1595	3141595	B5	FLOOR TILE	5
314	P1594	3141594	C6	ELBOWS	60
315	P1645	3151645	B5	STRAIGHT PIPE	40
315	P1643	3151643	K6	MASTIC	5
315	P1629	3151629	16	FLOOR TILE	5
315	999A	ASSUMED	K6	FIRE DOOR	50
. 315	P1646	3151646	B5	ELBOWS	40
315	P1642	3151642	K6	CEILING TILE	15
315	P1630	3151630	86	FLOOR TILE	5
315	P1640	3151640	K6	FLOOR TILE	5
315	P1632	3151632	B6	FLOOR TILE	5
316	. B1	0036-01	E5	FLEXIBLE DUCT CONNECTOR	. 0
316	999A	ASSUMED	B5	FIRE DOOR	50
316	P1802	3161802	18	FLOOR TILE	5
316	P1803	3161803	<b>B</b> 5	FLOOR TILE	5
316	P1805	3161805	86	FLOOR TILE	5
316	P1809	3161809	K5	FLOOR TILE	5
316	999B	ASSUMED	K4	FLOOR TILE	5
316	P1800	3161800	C5	PIPE INSULATION	5
317	P2272	3172272	C7	FLOOR TILE	5
317	P2282	3172282	H5	FLOOR TILE	5
317	P2273	3172273	C7	FLOOR TILE	5
317	P2291	3172291	F5	FLOOR TILE	5
317	P2268	3172268	C4	FLOOR TILE	5
317	P2271	3172271	D5	FLOOR TILE	5
317	P2283	3172283	H4	FLOOR TILE	5
317	999A	ASSUMED	H4	FIRE DOOR	50
317	P2290	3172290	E6	FLOOR COVERING	10
318	P1531	3181531	E4	ACOUSTICAL CEILING TILE	5
318	999A	ASSUMED	G7	FIRE DOOR	50
318	101	0018-01	J4	ACOUSTICAL WALL TILE	5
320	P2213	3202213	G7	FLOOR TILE	5
320	P2217	3202217	G4	FLOOR TILE	5
320	P2224	3202224	15	FLOOR TILE	5
320	P2222	3202222	B5	FLOOR TILE	5
320	P2223	3202223	J5	FLOOR TILE	5

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	BLDG NUMBER	SAMPLE NUMBER	LAB ID	CAD LOC	MATERIAL TYPE	TOTAL ASBESTOS
		. ========		2222		
	320	P2229	3202229	F5	FLOOR TILE	5
	320	P2216	3202216	G4	FLOOR TILE	
121   121   0037-01   J7   PRESSED PAPER WITHIN WALL. PAPER WRAPPED   35	321	P2210	3212210	E4	FLOOR TILE	5
222   P868   322868   E5   TRANSITE WALLBOARD   60	321	P2207	3212207	E3	ACOUSTICAL CEILING TILE	
101   49-01   64   CONCRETE LINING   0	321	B1	0032-01	J7	PRESSED PAPER WITHIN WALL. PAPER WRAPPED	
222 P867 322867 G4 WALL COVERING 55 233 P1 32301 G4 FLOOR TILE 2 2 323 P1 32304 C5 FLOOR TILE 2 3 323 P5 32305 C4 FLOOR TILE 3 3 323 999A ASSUMED C6 FLOOR TILE 3 3 324 P2296 3242296 T7 TARNSTITE WALL COVERING 16 324 P2296 3242298 T7 TARNSTITE WALL COVERING 16 324 999A ASSUMED C6 FIRE DOORS 5 324 999A ASSUMED C6 FIRE DOORS 5 324 999A ASSUMED C6 FIRE DOORS 5 324 9299 3242298 F5 FLOOR TILE 5 325 P2249 3252248 F5 FLOOR TILE 5 326 P2249 3252248 F5 FLOOR TILE 5 327 P2248 3252248 C7 FLOOR TILE 5 327 P2248 3252248 C7 FLOOR TILE 5 328 P2248 3252248 C7 FLOOR TILE 5 328 P2248 3252248 C7 FLOOR TILE 5 329 P2248 3252248 C7 FLOOR TILE 5 320 P2248 3252248 C7 FLOOR TILE 5 326 P2248 3252248 C7 FLOOR TILE 5 327 P2248 3252248 C7 FLOOR TILE 5 328 P2248 32628 P2248 P2	322	P868	322868	E5	TRANSITE WALLBOARD	60
P1   92301   G4	322	101	49-01	G4	CONCRETE LINING	0
923         P1         32301         G4         FLOOR TILE         2           923         P4         32304         C5         FLOOR TILE         2           323         P5         32305         C4         FLOOR TILE         3           324         P2296         3242286         17         TRANSITE WALL COVERING         16           324         P2293         3242283         D3         FLOOR TILE         5           324         P2293         3242293         D3         FLOOR TILE         5           324         P99A         ASSUMED         C6         FTRE DOORS         50           324         P99BA         ASSUMED         C6         FTRE DOORS         50           324         P1534         3241534         J6         TRANSITE WALL COVERING         10           324         P2298         3242289         F5         FLOOR TILE         5           325         P2249         3242289         F5         FLOOR TILE         5           325         P2248         3252248         C7         FLOOR TILE         5           325         P2246         3252245         K5         FLOOR TILE         5	322	P867	322867	G4	WALL COVERING	55
323         P4         32304         C5         FLOOR TILE         2           323         P5         32305         C4         FLOOR TILE         3           323         999A         ASSUMED         C6         FLOOR TILE         0           324         P2296         3242293         D3         FLOOR TILE         5           324         P9293         ASSUMED         C6         FIRE DOORS         50           324         P91534         3241534         J6         TRANSITE WALL COVERING         10           324         P1534         3241534         J6         TRANSITE WALL COVERING         10           324         P1534         3241534         J6         TRANSITE WALL COVERING         10           324         P2299         3242299         F5         FLOOR TILE         5           324         P2299         3242298         F5         FLOOR TILE         5           325         P2248         3252248         C7         FLOOR TILE         5           325         P2248         3252246         K5         FLOOR TILE         5           326         P2853         326853         E4         FLOOR TILE         0	323	P1	32301	G4	FLOOR TILE	2
323         PS         3230S         C4         FLOOR TILE         3           323         999A         ASSUMED         C6         FLOOR TILE         0           324         P2296         3242293         D3         FLOOR TILE         5           324         999A         ASSUMED         C6         FIRE DOORS         50           324         999A         ASSUMED         C6         FIRE DOORS         50           324         P1534         3241534         J6         TARNISTIE WALL COVERING         10           324         P2299         3242298         F5         FLOOR TILE         5           324         P2299         3242298         F5         FLOOR TILE         5           325         P2249         3252248         C7         FLOOR TILE         5           325         P2248         3252248         C7         FLOOR TILE         5           325         P2246         3252246         K5         FLOOR TILE         5           326         P863         326853         E4         FLOOR TILE         10           326         P855         326855         I4         FLOOR TILE         10           32	323	P4	32304	C5	FLOOR TILE	2
323         999A         ASSUMED         C6         FLOOR TILE         0           324         P2296         3242296         I7         TRANSITE WALL COVERING         16           324         P2293         3242293         03         FLOOR TILE         5           324         P1534         3241534         J6         TRANSITE WALL COVERING         10           324         P1534         3241534         J6         TRANSITE WALL COVERING         10           324         P2298         3242299         F5         FLOOR TILE         5           324         P2298         3242299         F5         FLOOR TILE         5           325         P2249         3252249         C7         FLOOR TILE         5           325         P2248         3252445         K5         FLOOR TILE         5           326         P2455         3252425         K5         FLOOR TILE         0           326         P863         326865         K5         FLOOR TILE         10           326         P865         326856         K5         FLOOR TILE         5           326         P854         326854         K6         FLOOR TILE         5 </td <td>323</td> <td>P5</td> <td>32305</td> <td>C4</td> <td>FLOOR TILE</td> <td>3</td>	323	P5	32305	C4	FLOOR TILE	3
16   16   17   17   17   18   18   16   18   18   18   18   18	323	999A	ASSUMED	C6	FLOOR TILE	0
324         P2293         3242293         D3         FLOOR TILE         5           324         999A         ASSUMED         C6         FIRE DOORS         50           324         P1534         3241534         J6         TRANSITE WALL COVERING         10           324         P2299         3242298         F5         FLOOR TILE         5           324         P2298         3242298         F5         FLOOR TILE         5           325         P2249         3252249         C7         FLOOR TILE         5           325         P2248         3252246         K5         FLOOR TILE         5           325         P2245         3252245         K5         FLOOR TILE         5           326         P863         326863         E4         FLOOR TILE         10           326         P855         326855         I4         FLOOR TILE         5           326         P856         326865         I4         FLOOR TILE         5           326         P851         326859         I4         FLOOR TILE         5           326         P851         326859         I4         FLOOR TILE         5           326<	324			. 17	TRANSITE WALL COVERING	16
324         999A         ASSUMED         C6         FIRE DOORS         50           324         P1534         3241534         J6         TRANSITE WALL COVERING         10           324         P2299         3242299         F5         FLOOR TILE         5           324         P2298         3252249         C7         FLOOR TILE         5           325         P2248         3252248         C7         FLOOR TILE         5           325         P2248         3252246         K5         FLOOR TILE         5           325         P2248         3252245         K5         FLOOR TILE         0           326         P863         326863         E4         FLOOR TILE         10           326         P855         326855         I4         FLOOR TILE         10           326         P856         326854         I4         FLOOR TILE         10           326         P856         326854         I4         FLOOR TILE         5           326         P851         326854         I4         FLOOR TILE         5           326         P851         326859         I4         FLOOR TILE         5           326<	324	P2293		D3	FLOOR TILE	5
10   10   12   12   13   14   15   14   15   15   15   15   15	324		ASSUMED	C6	FIRE DOORS	50
324					TRANSITE WALL COVERING	10
324 P2298 324298 F5 FLOOR TILE 5 325 P2249 3252249 C7 FLOOR TILE 5 325 P2248 3252249 C7 FLOOR TILE 5 325 P2248 3252246 K5 FLOOR TILE 5 325 P2246 3252245 K5 FLOOR TILE 0 326 P863 326863 E4 FLOOR TILE 10 326 P865 326865 I4 FLOOR TILE 10 326 P855 326856 I4 FLOOR TILE 5 326 P856 326856 I4 FLOOR TILE 5 326 P856 326856 I4 FLOOR TILE 5 326 P857 326857 I4 FLOOR TILE 5 326 P857 326857 I4 FLOOR TILE 5 326 P857 326857 I4 FLOOR TILE 5 326 P859 326859 I4 FLOOR TILE 5 326 P859 326857 I4 FLOOR TILE 5 326 P859 326859 I4 FLOOR TILE 5 326 P865 326865 D6 FLOOR TILE 5 326 P865 326865 D6 FLOOR TILE 5 327 P8664 326864 E6 FLOOR TILE 5 328 B2 0047-02 J3 HARD PIPE 0 328 B2 0047-01 J3 HARD PIPE 0 328 B1 0047-01 J3 HARD PIPE 0 329 P1910 3291910 D3 FLOOR TILE 5 329 P1910 3291910 D3 FLOOR TILE 5 329 P1911 3291911 D4 FLOOR TILE 5 329 P1910 3291910 D3 FLOOR TILE 5 329 P1911 3291911 D4 FLOOR TILE 5 331 P1018 3311018 E8 FLOOR TILE 5 331 P105 331166 H2 GASKET 3 331 P145 331145 I6 TRANSITE WALL BOARD 35 331 P145 331166 H2 GASKET 5 331 P1574 331574 C7 FLOOR TILE 5 331 P1574 331574 C7 FLOOR TILE 5 331 P1574 3311579 D6 FLOOR TILE 5 331 P1574 3311579 D7 FLOOR TILE 5 331 P1021 3311021 E8 FLOOR TILE 5				F5	FLOOR TILE	5
325				F5	FLOOR TILE	5
325	325		3252249	C7	FLOOR TILE	5
325				C7	FLOOR TILE	5
325				K5	FLOOR TILE	5
326       P863       326863       E4       FLOOR TILE       10         326       P855       326855       I4       FLOOR TILE       10         326       P856       326856       I4       FLOOR TILE       5         326       P854       326851       D4       FLOOR TILE       5         326       P861       326861       D4       FLOOR TILE       5         326       P857       326857       I4       FLOOR TILE       5         326       P859       326859       I4       FLOOR TILE       5         326       P865       326865       D6       FLOOR TILE       5         326       P865       326865       D6       FLOOR TILE       5         326       P991       326991       G7       TRANSITE WALL BOARD       50         326       P864       326864       E6       FLOOR TILE       5         328       B2       0047-02       J3       HARD PIPE       0         328       B1       0047-01       J3       HARD PIPE       0         329       P1910       329191       D3       FLOOR TILE       5         329       P1911			=			0
326       P855       326855       I4       FLOOR TILE       10         326       P856       326856       I4       FLOOR TILE       5         326       P854       326854       I4       FLOOR TILE       5         326       P851       326861       D4       FLOOR TILE       10         326       P857       326857       I4       FLOOR TILE       5         326       P859       326859       I4       FLOOR TILE       5         326       P859       326865       D6       FLOOR TILE       5         326       P865       326865       D6       FLOOR TILE       5         326       P891       326991       G7       TRANSITE WALL BOARD       50         326       P864       326864       E6       FLOOR TILE       5         326       P894       326994       H4       FLOOR TILE       5         328       B1       0047-02       J3       HARD PIPE       0         329       P1909       3291909       04       FLOOR TILE       5         329       P1911       3291910       03       FLOOR TILE       5         329       B1				E4	FLOOR TILE	10
326       P856       326856       I4       FLOOR TILE       5         326       P854       326854       I4       FLOOR TILE       5         326       P861       326861       D4       FLOOR TILE       10         326       P857       326857       I4       FLOOR TILE       5         326       P859       326859       I4       FLOOR TILE       5         326       P865       326865       D6       FLOOR TILE       5         326       P991       326991       G7       TRANSITE WALL BOARD       50         326       P864       326864       E6       FLOOR TILE       5         326       P864       326864       E6       FLOOR TILE       5         328       B2       0047-02       J3       HARD PIPE       0         329       P1909       3291909       D4       FLOOR TILE       5         329       P1910       3291910       D3       FLOOR TILE       5         329       P99A       ASSUMED       G4       FLOOR TILE       5         331       P1018       3311018       E8       FLOOR TILE       5         331       P145 </td <td>326</td> <td>P855</td> <td></td> <td></td> <td>FLOOR TILE</td> <td>10</td>	326	P855			FLOOR TILE	10
326       P861       326861       D4       FLOOR TILE       10         326       P857       326857       I4       FLOOR TILE       5         326       P859       326859       I4       FLOOR TILE       5         326       P865       326865       D6       FLOOR TILE       5         326       P991       326991       G7       TRANSITE WALL BOARD       50         326       P864       326864       E6       FLOOR TILE       5         326       P994       326994       H4       FLOOR TILE       5         328       B2       0047-02       J3       HARD PIPE       0         328       B1       0047-01       J3       HARD PIPE       0         329       P1909       329190       D4       FLOOR TILE       5         329       P1911       329191       D4       FLOOR TILE       5         329       P1911       329191       D4       FLOOR TILE       5         329       P1911       329191       D4       FLOOR TILE       5         329       P1913       3311018       E8       FLOOR TILE       5         331       P1018 <td>326</td> <td></td> <td>326856</td> <td></td> <td></td> <td>5</td>	326		326856			5
326       P857       326857       I4       FLOOR TILE       5         326       P859       326859       I4       FLOOR TILE       5         326       P865       326865       D6       FLOOR TILE       5         326       P991       326991       G7       TRANSITE WALL BOARD       50         326       P864       326864       E6       FLOOR TILE       5         328       B2       0047-02       J3       HARD PIPE       0         328       B1       0047-01       J3       HARD PIPE       0         329       P1909       3291909       D4       FLOOR TILE       5         329       P1910       3291910       D3       FLOOR TILE       5         329       P1911       3291910       D3       FLOOR TILE       5         329       P1911       3291910       D4       FLOOR TILE       5         329       P1911       3291910       D3       FLOOR TILE       5         331       P1018       3311018       E8       FLOOR TILE       5         331       P145       331145       I6       TRANSITE WALL BOARD       35         331	326	P854	326854	14	FLOOR TILE	5
3266       P857       326857       I4       FLOOR TILE       5         326       P859       326859       I4       FLOOR TILE       5         326       P865       326865       D6       FLOOR TILE       5         326       P991       326991       G7       TRANSITE WALL BOARD       50         326       P864       326864       E6       FLOOR TILE       5         326       P994       326994       H4       FLOOR TILE       5         328       B2       0047-02       J3       HARD PIPE       0         328       B1       0047-01       J3       HARD PIPE       0         329       P1909       3291909       D4       FLOOR TILE       5         329       P1910       3291910       D3       FLOOR TILE       5         329       P1911       3291910       D4       FLOOR TILE       5         329       P1911       3291910       D3       FLOOR TILE       5         329       B1       0027-01       J3       DEBRIS       2         331       P1018       3311018       E8       FLOOR TILE       5         331       P145	326	P861	326861	D4	FLOOR TILE	10
326       P859       326859       I4       FLOOR TILE       5         326       P865       326865       D6       FLOOR TILE       5         326       P991       326991       G7       TRANSITE WALL BOARD       50         326       P864       326864       E6       FLOOR TILE       5         328       B2       0047-02       J3       HARD PIPE       0         328       B1       0047-01       J3       HARD PIPE       0         329       P1909       3291909       D4       FLOOR TILE       5         329       P1910       3291910       D3       FLOOR TILE       5         329       P1911       329191       D4       FLOOR TILE       5         331       P1018       3311018       E8       FLOOR TILE       5         331       P145       331145       I6       TRANSITE WALL BOARD       35         331	326	P857	326857	14	FLOOR TILE	5
326       P865       326865       D6       FLOOR TILE       5         326       P991       326991       G7       TRANSITE WALL BOARD       50         326       P864       326864       E6       FLOOR TILE       5         328       B2       0047-02       J3       HARD PIPE       0         328       B1       0047-01       J3       HARD PIPE       0         329       P1909       3291909       D4       FLOOR TILE       5         329       P1910       3291910       D3       FLOOR TILE       5         329       P1911       3291911       D4       FLOOR TILE       5         329       P99A       ASSUMED       G4       FLOOR TILE       5         329       B1       0027-01       J3       DEBRIS       2         331       P1018       3311018       E8       FLOOR TILE       5         331       P145       331145       I6       TRANSITE WALL BOARD       35         331       P166       331166       H2       GASKET       80         331       P574       331574       C7       FLOOR TILE       5         331       P1329	326		326859		FLOOR TILE	5
326       P991       326991       G7       TRANSITE WALL BOARD       50         326       P864       326864       E6       FLOOR TILE       5         328       B2       0047-02       J3       HARD PIPE       0         328       B1       0047-01       J3       HARD PIPE       0         329       P1909       3291909       D4       FLOOR TILE       5         329       P1910       3291910       D3       FLOOR TILE       5         329       P1911       3291911       D4       FLOOR TILE       5         329       P1911       3291911       D4       FLOOR TILE       5         329       B1       0027-01       J3       DEBRIS       2         331       P1018       3311018       E8       FLOOR TILE       5         331       P145       331145       I6       TRANSITE WALL BOARD       35         331       P156       331166       H2       GASKET       80         331       P1329       3311329       D8       FLOOR TILE       5         331       P1329       3311329       D8       FLOOR TILE       5	326					
326       P864       326864       E6       FLOOR TILE       5         326       P994       326994       H4       FLOOR TILE       5         328       B2       0047-02       J3       HARD PIPE       0         328       B1       0047-01       J3       HARD PIPE       0         329       P1909       3291909       D4       FLOOR TILE       5         329       P1910       3291910       D3       FLOOR TILE       5         329       P1911       3291911       D4       FLOOR TILE       5         329       P1911       3291911       D4       FLOOR TILE       5         329       P99A       ASSUMED       G4       FLOOR TILE       0         329       B1       0027-01       J3       DEBRIS       2         331       P1018       3311018       E8       FLOOR TILE       5         331       P99A       ASSUMED       I2       FIRE DOORS       50         331       P145       331145       I6       TRANSITE WALL BOARD       35         331       P166       331166       H2       GASKET       80         331       P1329	326	P991				
326       P994       326994       H4       FLOOR TILE       5         328       B2       0047-02       J3       HARD PIPE       0         328       B1       0047-01       J3       HARD PIPE       0         329       P1909       3291909       D4       FLOOR TILE       5         329       P1910       3291910       D3       FLOOR TILE       5         329       P1911       3291911       D4       FLOOR TILE       5         329       P99A       ASSUMED       G4       FLOOR TILE       0         329       B1       0027-01       J3       DEBRIS       2         331       P1018       3311018       E8       FLOOR TILE       5         331       P99A       ASSUMED       I2       FIRE DOORS       50         331       P145       331145       I6       TRANSITE WALL BOARD       35         331       P166       3311166       H2       GASKET       80         331       P574       331574       C7       FLOOR TILE       5         331       P1329       3311329       D8       FLOOR TILE       5         331       P1021	326					
328       B2       0047-02       J3       HARD PIPE       0         328       B1       0047-01       J3       HARD PIPE       0         329       P1909       3291909       D4       FLOOR TILE       5         329       P1910       3291910       D3       FLOOR TILE       5         329       P1911       3291911       D4       FLOOR TILE       5         329       999A       ASSUMED       G4       FLOOR TILE       0         329       B1       0027-01       J3       DEBRIS       2         331       P1018       3311018       E8       FLOOR TILE       5         331       999A       ASSUMED       I2       FIRE DOORS       50         331       P145       331145       I6       TRANSITE WALL BOARD       35         331       P166       3311166       H2       GASKET       80         331       P574       331574       C7       FLOOR TILE       5         331       P1329       3311329       D8       FLOOR TILE       5         331       P1021       3311021       E8       FLOOR TILE       5				H4	FLOOR TILE	5
328       B1       0047-01       J3       HARD PIPE       0         329       P1909       3291909       D4       FLOOR TILE       5         329       P1910       3291910       D3       FLOOR TILE       5         329       P1911       3291911       D4       FLOOR TILE       5         329       999A       ASSUMED       G4       FLOOR TILE       0         329       B1       0027-01       J3       DEBRIS       2         331       P1018       3311018       E8       FLOOR TILE       5         331       999A       ASSUMED       I2       FIRE DOORS       50         331       P145       331145       I6       TRANSITE WALL BOARD       35         331       P166       3311166       H2       GASKET       80         331       P574       331574       C7       FLOOR TILE       5         331       P1329       3311329       D8       FLOOR TILE       5         331       P1021       3311021       E8       FLOOR TILE       5						
329       P1909       3291909       D4       FLOOR TILE       5         329       P1910       3291910       D3       FLOOR TILE       5         329       P1911       3291911       D4       FLOOR TILE       5         329       999A       ASSUMED       G4       FLOOR TILE       0         329       B1       0027-01       J3       DEBRIS       2         331       P1018       3311018       E8       FLOOR TILE       5         331       999A       ASSUMED       I2       FIRE DOORS       50         331       P145       331145       I6       TRANSITE WALL BOARD       35         331       P1166       3311166       H2       GASKET       80         331       P574       331574       C7       FLOOR TILE       5         331       P1329       3311329       D8       FLOOR TILE       5         331       P1021       3311021       E8       FLOOR TILE       5						
329       P1910       3291910       D3       FLOOR TILE       5         329       P1911       3291911       D4       FLOOR TILE       5         329       999A       ASSUMED       G4       FLOOR TILE       0         329       B1       0027-01       J3       DEBRIS       2         331       P1018       3311018       E8       FLOOR TILE       5         331       999A       ASSUMED       I2       FIRE DOORS       50         331       P145       331145       I6       TRANSITE WALL BOARD       35         331       P1166       3311166       H2       GASKET       80         331       P574       331574       C7       FLOOR TILE       5         331       P1329       3311329       D8       FLOOR TILE       5         331       P1021       3311021       E8       FLOOR TILE       5						
329       P1911       3291911       D4       FLOOR TILE       5         329       999A       ASSUMED       G4       FLOOR TILE       0         329       B1       0027-01       J3       DEBRIS       2         331       P1018       3311018       E8       FLOOR TILE       5         331       999A       ASSUMED       I2       FIRE DOORS       50         331       P145       331145       I6       TRANSITE WALL BOARD       35         331       P1166       3311166       H2       GASKET       80         331       P574       331574       C7       FLOOR TILE       5         331       P1329       3311329       D8       FLOOR TILE       5         331       P1021       3311021       E8       FLOOR TILE       5						
329       999A       ASSUMED       G4       FLOOR TILE       0         329       B1       0027-01       J3       DEBRIS       2         331       P1018       3311018       E8       FLOOR TILE       5         331       999A       ASSUMED       I2       FIRE DOORS       50         331       P145       331145       I6       TRANSITE WALL BOARD       35         331       P1166       3311166       H2       GASKET       80         331       P574       331574       C7       FLOOR TILE       5         331       P1329       3311329       D8       FLOOR TILE       5         331       P1021       3311021       E8       FLOOR TILE       25						
329       B1       0027-01       J3       DEBRIS       2         331       P1018       3311018       E8       FLOOR TILE       5         331       999A       ASSUMED       I2       FIRE DOORS       50         331       P145       331145       I6       TRANSITE WALL BOARD       35         331       P1166       3311166       H2       GASKET       80         331       P574       331574       C7       FLOOR TILE       5         331       P1329       3311329       D8       FLOOR TILE       5         331       P1021       3311021       E8       FLOOR TILE       25						
331       P1018       3311018       E8       FLOOR TILE       5         331       999A       ASSUMED       I2       FIRE DOORS       50         331       P145       331145       I6       TRANSITE WALL BOARD       35         331       P1166       3311166       H2       GASKET       80         331       P574       331574       C7       FLOOR TILE       5         331       P1329       3311329       D8       FLOOR TILE       5         331       P1021       3311021       E8       FLOOR TILE       25						
331       999A       ASSUMED       I2       FIRE DOORS       50         331       P145       331145       I6       TRANSITE WALL BOARD       35         331       P1166       3311166       H2       GASKET       80         331       P574       331574       C7       FLOOR TILE       5         331       P1329       3311329       D8       FLOOR TILE       5         331       P1021       3311021       E8       FLOOR TILE       25	331					
331       P145       331145       I6       TRANSITE WALL BOARD       35         331       P1166       3311166       H2       GASKET       80         331       P574       331574       C7       FLOOR TILE       5         331       P1329       3311329       D8       FLOOR TILE       5         331       P1021       3311021       E8       FLOOR TILE       25	331					50
331       P1166       3311166       H2       GASKET       80         331       P574       331574       C7       FLOOR TILE       5         331       P1329       3311329       D8       FLOOR TILE       5         331       P1021       3311021       E8       FLOOR TILE       25						
331       P574       331574       C7       FLOOR TILE       5         331       P1329       3311329       D8       FLOOR TILE       5         331       P1021       3311021       E8       FLOOR TILE       25						
331       P1329       3311329       D8       FLOOR TILE       5         331       P1021       3311021       E8       FLOOR TILE       25						
331 P1021 3311021 E8 FLOOR TILE 25						5
	331					25
	331	P1020	3311020	E8	FLOOR TILE	5

BLDG NUMBER	SAMPLE NUMBER	LAB I D	CAD LOC	MATERIAL TYPE	TOTAL ASBESTOS
========	=========	222222	=====	=======================================	
331	P1022	3311022	C6	FLOOR COVERING	35
331	P1017	3311017	17	FLOOR TILE	5
331	P1016	3311016	D8	FLOOR TILE	5
331	P1015	3311015	80	FLOOR TILE	5
332	P1237	3321237	J7 -	PIPE JOINTS	0
332	P1236	3321236	J4	STRAIGHT PIPE	0
332	203	020-05	J6	STRAIGHT PIPE	75
332	202	020-04	K5	TANK INSULATION	30
332	103	020-03	D5	BOILER TANK INSULATION	20
332	102	020-02	C6	ROPE GASKET	10
334	P1885	3341885	H4	FLOOR TILE	5
334	P1883	3341883	H4	CEILING TILE (ABOVE DROP CEILING)	5
334	P1884	3341884	H4	FLOOR TILE	5
334	P1877	3341877	K3	DEBRIS -	0
335	P2018	3352018	C6	FLOOR TILE	5
335	P2016	3352016	G5	FLOOR TILE	5
335	P2015	3352015	K5	FLOOR TILE	5
336	P1651	3361651	D5	FLOOR TILE (COVERED BY CARPET)	5
337	999A	ASSUMED	G6	FIRE DOOR	50
337	999B	ASSUMED	E4	FLOOR TILE	. 0
340	999A	ASSUMED	C3	FLOOR TILE	0
348	999A	ASSUMED	C7	FLOOR TILE	5
353	999A	ASSUMED	C4	TRANSITE WALLBOARD	50
353	P1979	3531979	В6	FLOOR TILE	5
353	P1978	3531978	B6	FLOOR TILE	5
354	P1923	3541923	D6	FLOOR TILE	5
354	P1928	3541928	K4	BOILER/TANK INSULATION	10
354	P1929	3541929	J4	FITTINGS (ELBOWS, VALVES)	5
354	P1921	3541921	C5	FITTINGS (ELBOWS, VALVES)	· 5
354	P1926	3541926	H4	FLOOR TILE	5
354	P1930	3541930	J4	FITTINGS (ELBOWS, VALVES)	5
354	P1925	3541925	G4	FLOOR TILE	5
357	999A	ASSUMED	C5	FIRE DOOR	50
357	P1054	3571054	D2	FLOOR COVERING	35
357	P1318	3571318	E7	FLOOR TILE (CARPET OVER TILE)	5
357	P1327	3571327	13	FLOOR TILE (CARPET OVER TILE)	5
357	P1049	3571049	J6	FLOOR COVERING	55
357	P1083	3571083	C4	FLEXIBLE DUCT CONNECTOR	65
357	P1050	3571050	E3	FLOOR COVERING	45
357	P1075	3571075	C4	WALL BOARD	60
358	999A	ASSUMED	E5	FIRE DOORS	50
358	P32	35832	<b>D</b> 5	FLOOR TILE	5
358	P28	35828	H4	AIRDUCT MATERIAL	35
358	P27	35827	I 4	AIRDUCT MATERIAL	90
360	101	023-01	F4	ACOUSTICAL CEILING TILE	0
361	999A	ASSUMED	J7	FIRE DOOR	50
361	P9	36109	J4	TRANSITE WALLBOARD	65
361	P5	36105	G8	FLOOR TILE	2

BLDG NUMBER	SAMPLE NUMBER	LAB ID	CAD LOC	MATERIAL TYPE	TOTAL . ASBESTOS
*****		*****	== % = #		
361	Р3	36103	G6	FLOOR TILE	35
362	P2043	3622043	C5	FITTINGS AND ELBOWS	. 5
362	P2048	3622048	E6	FLOOR TILE	5
362	999A	ASSUMED	D5	FIRE DOORS	50
362	P2042	3622042	C5	FITTINGS AND ELBOWS	5
362	P2047	3622047	G5	FLOOR TILE	5
362	P2143	3622143	G5	FLOOR TILE	5
362	P2045	3622045	E4	FLOOR TILE	5
362	P2044	3622044	D5	DEBRIS	5
362	P2144	3622144	I 4	FLOOR TILE	5
362	P2059	3622059	H4	FLOOR TILE .	5
365	101	026-01	H5	ACOUSTICAL CEILING TILE	0
365	102	026-02	H4		0
365	103	026-03	G5		0
365	104	026-04	E7		0
365	105	026-05	C5		0
365	106	026-06	G7		0
365	999C	ASSUMED	C3	FLOOR TILE	5
365	999B	ASSUMED	C3	FLOOR TILE	5
365	999A	ASSUMED	F5	FIRE DOOR	50
366	104	0041-04	K6	FLU INSULATION	0
366	109	0041-09	Н6	ELBOWS	0
366	108	0041-08	Н6	ELBOWS	0
366	107	0041-07	18	ELBOWS	1
366	106	0041-06	18	ELBOW	0
366	105	0041-05	16	ELBOWS	0
366	103	0041-03	16	STRAIGHT PIPE INSULATION	10
366	102	0041-02	17	STRAIGHT PIPE INSULATION	15
366	101	0041-01	17	STRAIGHT PIPE INSULATION	15
366	999A	ASSUMED	С3	FLOOR TILE	5
372	P4	37204	E4	FLOOR TILE	2
372	P2	37202	E5	FLOOR TILE	2
372	P1	37201	E5	FLOOR TILE	2
372	P1000X	3721000X	E4	FIRE DOOR	3
374	Р7	37407	E5	PATCHING MATERIAL	2
374	P6	37406	E5	PIPE JOINT	4
374	P9	37409	C7	PIPE JOINT (IN ATTIC)	4
374	P1	37401	H5	FLOOR TILE	2
374	999A	ASSUMED	E7	DEBRIS	0
380	P6	38006	16	FLOOR TILE	2
380	P8	38008	F4	FLOOR TILE	2
381	101	0035-01	K4	INSULATION	0
381	102	0035-02	K4	INSULATION	0
392	P1	39201	G6	FLOOR TILE	3
392	P1000X	39200X	G7	FIRE DOORS	3
399	P301	399301	J6	CEILING TILE	4
399	P202	399202	J5	CEILING TILE	2
399	P105	399105	Н6	FLOOR TILE	2
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BLDG NUMBER	SAMPLE NUMBER	. LAB ID	CAD LOC	MATERIAL TYPE	TOTAL ASBESTOS
****	*******	*******	202022		*******
399	P1000X	39900X	G5	FIRE DOOR	3
399	P104	399104	J5	CEILING TILE	2
399	P1	39901	15	FLOOR TILE	2
399	P200	399200	J6	FLOOR TILE	2
399	P303	399303	J6	FLOOR TILE	2
399	B1	0023-01	G5	FLEX CONNECTOR	10
435	999C	ASSUMED	D4	PIPE JOINTS	50
435	999A	ASSUMED	C4	STRAIGHT PIPE INSULATION	50
435	999B	ASSUMED	D4	DEBRIS	50
470	P8C	4708C	B4	FLOOR TILE	2
470	P1000X	47000X	D4	FIRE DOOR	3
470	P15	47015	C7	VINYL SHEET	30
470	P15A	47015A	F4	VINYL SHEET	25
470	999A	ASSUMED	B4	LIGHT FIXTURE PAPER	0
498	P8	49808	A4	TRANSITE SIDING	30
498	P7	49807	F6	FLOOR TILE	2
498	999A	ASSUMED	F6	FIRE DOORS	0
505	999B	ASSUMED	F6	FLOOR TILE	5
505	999A	ASSUMED	B5	FIRE DOORS	50
506	999A	ASSUMED	K4	FIRE DOORS	50
507	999B	ASSUMED	H5	ELBOW FITTINGS	15
507	999A	ASSUMED	B5	FLOOR TILE	5
507	999C	ASSUMED	Н5	DEBRIS	50
507	999D	ASSUMED	F6	FIRE DOOR	50
507	999E	ASSUMED	85	FLOOR TILE	0
508	P1933	5081933	K5	FLOOR TILE	0
508	P1939	5081939	F6	VINYL SHEET FLOORING	0
508	P1946	5081946	G5	TAR PUTTY	0
508	P1937	5081937	F6	FLOOR TILE	0
508	999A	ASSUMED	85	FLOOR TILE	5
509	999A	ASSUMED	G6	FLOOR TILE	5
509	P2025	5092025	H5	FLOOR TILE	0
509	P2023	5092023	K5	FLOOR TILE	0
629	999A	ASSUMED	B4	SOFFIT	50
630	101	029-01	15	DOT SERPENTINE	0
630	102	029-02	17	DOT SERPENTINE	0
630	999A	ASSUMED	K5	FIRE DOORS	50
630	103	029-03	K7	DOT SERPENTINE	0
630	9998	ASSUMED	16	FLOOR TILE	0
631	P2	63102	I4	SHEET VINYL	2
631	999A	ASSUMED	J7	TRANSITE WALLBOARD AROUND DOOR AND SOFFIT	50
701	999A	ASSUMED	I4	FLOOR TILE	5
701	P6	70106	16	PIPE JOINTS	85
701	P8	70108	G4	FLOOR TILE	4
701	P5	70105	16	STRAIGHT PIPE INSULATION	2
701	P2	70102	H5	FLOOR TILE	3
701	P5A	70105A	Н6	STRAIGHT PIPE INSULATION	85
704	P1000Y	70400Y	C7	FIRE DOOR	1

BLDG NUMBER	SAMPLE NUMBER	LAB ID	CAD LOC	MATERIAL TYPE	TOTAL ASBESTOS
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705	P12	70512	C7	FLOOR TILE	2
705	999A	ASSUMED	C5	FLOOR TILE	5
705	P2	70502	16	FLOOR TILE	3
705	999B	ASSUMED	C7	TRANSITE BOARD	50
707	9998	ASSUMED	G5	FLOOR TILE	0
707	P1000X	70700X	17	TRANSITE WALLBOARD	3
707	999A	ASSUMED	F3	TRANSITE WALLBOARD	50
707	P1000Y	70700Y	Н6	TRANSITE WALLBOARD	3
707	P1000Z	70700Z	Н6	FLEXIBLE CONNECTOR	3
707	P5	70705	Н6	FLOOR TILE	2
707	P4	70704	15	FLOOR TILE	2
707	Р3	70703	F5	FLOOR TILE	. 2
708	S1	160-01	15	INSULATION DEBRIS	. 50
708	P12	70812	J7	TAR WRAP	90
708	P1000Z	70800Z	17	FIRE DOOR	3
708	P1000X	70800X	H4	TRANSITE WALLBOARD	3
708	999A	ASSUMED	H4	STRAIGHT PIPE	. 0
709	P1000Y	70900Y	Н8	FIRE DOORS	3
712	P1	71201	J6	FLOOR TILE	2
712	999A	ASSUMED	J6	FIRE DOOR	0
714	999B	ASSUMED	J7	FLOOR TILE	. 0
714	P11	71411	C4	FLOOR TILE	2
714	P10	71410	C4	FLOOR TILE	2
714	P17	71417	15	FLOOR TILE	2
714	P12	71412	F5	FLOOR TILE	2
714	P14	71414	G4	FLOOR TILE	2
714	P16	71416	G4	STRAIGHT PIPE INSULATION -	60
714	999A	- ASSUMED	C5	FIRE DOORS	50
714	P9	71409	C4	PIPE JOINTS	2
714	P15	71415	G4	STRAIGHT PIPE INSULATION	25
715	101	28-01	J6	DOT SERPENTINE	0
715	102	28-02	K6	DOT SERPENTINE	0
715	103	28-03	J6	DOT SERPENTINE	0
715	999A	ASSUMED	B4	FLOOR TILE	5
718	999A	ASSUMED	D7	TRANSITE BULK HEAD	50
740	P4	74004	Н6	FLOOR TILE	2
740	Р3	74003	E5	FLOOR TILE	2
741	999A	ASSUMED	C5	FIRE DOORS	50
741	P9	74109	H5	FLOOR TILE	3
741	P3	74103	G6	FLOOR TILE	2
741	P2	74102	G6	FLOOR TILE	2
745	P1	74501	C4	FLOOR TILE	2
745	P10	74510	16	FLOOR TILE	2
745	P1000X	7451000X	F6	TRANSITE WALLBOARD	3
745	P15	74515	F5	ROPE INSULATION	60
745	P12	74512	J6	STRAIGHT PIPE INSULATION	40
801	P1669	8011669	H4	TANK INSULATION	5
801	999A	ASSUMED	B4	FIRE DOOR	50

BLDG NUMBER	SAMPLE NUMBER	LAB ID	CAD LOC	MATERIAL TYPE	TOTAL ASBESTOS
		222222	==##=		
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802	101	051-01	E7		0
802	102	051-02	Н8		0
802	103	051-03	15		0
805	999A	ASSUMED	E5	FIRE DOORS	50
805	P1685	8051685	F5	FLOOR TILE	- 0
805	P1684	8051684	F5	FLOOR TILE	0
805	P1702	8051702	H6	FLOOR TILE	0
805	P1703	8051703	Н6	FLOOR TILE	0
805	P1683	8051683	F5	FLOOR TILE	. 5
805	P1682	8051682	J6	FLEXIBLE CONNECTOR	50
805	P1704	8051704	H6	FLOOR TILE	5
806	P57	80657	B5	FLOOR TILE	5
807	P45	80745	C5	FLOOR TILE	5
807	\$1	163-01	C4	DEBRIS ON DIRT FLOOR	60
808	P115	808115	G6	STRAIGHT PIPE	0
808	P112	808112	G6	STRAIGHT PIPE	0
808	P207	808207	D6	STRAIGHT PIPE	0
808	P1000Y	80800Y		FLEXIBLE CONNECTORS	0
808	P13	80813	G6	FLOOR TILE	0
808	P14	80814	G6	FLOOR TILE	0
808	P43	80843	D9	STRAIGHT PIPE	. 0
808	P15	80815	G6	FLOOR TILE	0
808	P15A	80815A	C6	FLOOR TILE	. 0
808	P16	80816	C5	FLOOR TILE	0
808	P36 -	80836	E5	STRAIGHT PIPE	0
808	P313	808313	D6	PIPE JOINTS	0
808	P216	808216	D5	PIPE JOINTS	. 0
808	P208	808208	D6	PIPE JOINTS	0
808 .	P160	808160	C6	FLOOR TILE	0
808	P47	80847		PIPE JOINTS	0
808	999A	ASSUMED		INSULLATION ON DUCT	0
808	P213	808213	E7	MASTIC	0
808	P1000W	80800W		TRANSITE WALL PANELS	0
808	P17	80817	E6	FLOOR TILE	0
808	P166	808166	F6	STRAIGHT PIPE	0
808	P18	80818	G7	FLOOR TILE	0
808	P205	808205	C4	FLOOR TILE	0
808	P20	80820	E7	FLOOR TILE	0
808	P211	808211	E7	FLOOR TILE	0
808	P506	808506	D5	FLOOR TILE	0
808	P412	808412	H5	FLOOR TILE	0
808	P309	808309	D5	FLOOR TILE	0
808	P23	80823	C6	FLOOR TILE	0
808	P22	80822	B5	FLOOR TILE	0
808	P218	808218	C5	FLOOR TILE	0
815	999A	ASSUMED	D5	FIRE DOORS	50
950	999B	ASSUMED	02	LIGHT FIXTURE PAPER	5
950	999C	ASSUMED	F7	FLEXIBLE DUCT CONNECTOR	5

TOTAL ASBESTOS	MATERIAL TYPE	CAD LOC	LAB ID	SAMPLE NUMBER	BLDG NUMBER
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2	3/4"WATER,1" & 5" HEATING	D8	95001	P1	950
5	FLOOR TILE	D2	ASSUMED	999D	950
50	FIRE DOORS	D6	ASSUMED	999A	950
5	TAR WRAP AC COMPRESSOR	F9	0028-01	101	950
. 0	FLOOR TILE	E5	95007	P7	950
0	ACOUSTICAL CEILING TILE	E5	172-01	101	1000
0	ACOUSTICAL CEILING TILE	E4	172-02	102	1000
0	ACOUSTICAL CEILING TILE	F4	172-03	103	1000
0	STRAIGHT PIPE	E3	1052-02	105	1000
0	STRAIGHT PIPE	F4	1052~01	104	1000
0	FLOOR TILE	K5	10002155	P2155	1000
0	STRAIGHT PIPE	F4	1052-03	106	1000
50	FIXTURE PAPER	J5	ASSUMED	999B	1001
5	FLOOR TILE	85	1001930	P930	1001
5	FLOOR TILE	В3	1001931	P931	1001
50	FIRE DOORS	B4	ASSUMED	999A	1001
5	FLOOR TILE	J6	9361001	P936	1001
- 5	FLOOR TILE	J6	1001937	P937	1001
5	PATCHING MATERIAL ON ROOF DRAIN	C4	0040-06	106	1017
0	FLOOR TILE	D6	101708	P8	1017
0	FLOOR TILE	C3	101710	P10	1017
0	FLOOR TILE	D4	101711	P11	1017
0	TANK INSULATION	C7	101711 101700X	P1000X	1017
0	FLEXIBLE DUCT CONNECTOR	16	101718	P18	1017
	STRAIGHT PIPE			P12A	1017
0		K7	101712A		
0	PIPE JOINTS	K7	101713	P13	1017
0	PIPE JOINTS	K7	101713A	P13A	1017
0	STRAIGHT PIPE	F6	ASSUMED	999A	1017
0	PIPE JOINTS	F6	ASSUMED	999B	1017
0	FLOOR TILE	D7	101709	P9	1017
0	FIRE DOORS	C6	ASSUMED	999C	1017
0	STRAIGHT PIPE	K7	101712	P12	1017
0	LIGHT FIXTURE PAPER	C4	101716	P16	1017
2	FLOOR TILE	F7	101808	P8	1018
5	FLOOR TILE	F7	101803	Р3	1018
50	FIRE DOORS	13	ASSUMED	999A	1023
2	FLOOR TILE	D7	102401	P1	1024
0	FLEX CONNECTOR	13	ASSUMED	999A	1024
0		J6	038-05	105	1025
0		K7	038-04	104	1025
0		J7	038-03	103	1025
0		K6	038-06	106	1025
0		B6	038-02	102	1025
0	ACOUSTICAL CEILING TILE	B6	038-01	101	1025
5	FLOOR TILE	C4	ASSUMED	999A	1025
60	FLEXIBLE DUCT CONNECTOR	G6	10302327	P23276	1030
0	TAR PAPER ON DUCT	G6	0050-01	101	1030
5	TAR PAPER ON DUCT	G6	0050-02	102	1030

BLDG NUMBER	SAMPLE NUMBER	LAB ID	CAD LOC	MATERIAL TYPE	TOTAL ASBESTOS
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1030	103	0050-03	D5	TAR WRAP	2
1030	104	0050-04	D5	TAR WRAP	2
1030	999A	ASSUMED	B5	FIRE DOORS	50
1084	101	055-01	H7	TAR WRAP	0
1084	103	055-03	Н6	TAR PAPER ON CEILING	10
1084	114	055-14	G5	PIPE JOINTS	0
1084	115	055-15	C4	ON PIPE	0
1084	999A	ASSUMED		FLOOR TILE	5
1084	112	055-12	B7	TAR ON WALLS & CEILING	5
1084	111	055-11	87	TAR ON WALLS & CEILING	5
1084	116	055-16	C4	ON PIPE	0
1084	107	055-07	H6	WALL CORK	0
1084	113	055-13	G5	PIPE JOINT	0
1084	105	055-05	Н6	TAR PAPER ON CEILING	2
1084	104	055-04	Н6	TAR PAPER ON CEILING	5
1084	106	055-06	F7	WALL CORK	2
1084	102	055-02	H7	TAR WRAP	0
1089	P7	108907	J5	TRANSITE WALLBOARD	35
1099	P2411	10992411	E6		0
1099	P2412	10992412	E3		0
1099	P2415	10992415	K3		0
1099	P2417	10992417	G6		0
1099	P2413	10992413	E3		0
1099	999A	ASSUMED	D6		0
1099	P2416	10992416	J6		0
1108	P23014	11082301	Н3	STRAIGHT PIPE INSULATION	5
1108	999A	ASSUMED	H4	FIRE DOORS	50
1108	P23015	11082301	H2	PIPE FITTINGS	20
1108	P23012	11082301	H2	FLOOR TILE	5
1109	P23027	11092302	J7	FLOOR TILE	5
1113	P2514	11132514	E6	FLOOR TILE	5
1113	P2515	11132515	E6	FLOOR TILE	5
1113	P2516	11132516	E3	FLOOR TILE	5
1126	P23036	11262303	K4	STRAIGHT PIPE INSULATION	0
1133	999A	ASSUMED	15	FIRE DOOR	50
1138	P2452	11382452	C5	AIRDUCT MATERIAL	25
1138	999A	ASSUMED	C5	TRANSITE WALLBOARD	50
1141	999A	ASSUMED	K5	TRANSITE WALLBOARD	50
1142	999B	ASSUMED	D5	TRANSITE WALLBOARD	50
1142	999A	ASSUMED	C4	FLOOR TILE	5
1143	999A	ASSUMED	C5	TRANSITE WALLBOARD	50
1146	P7A	114607A	E5	PIPE JOINTS	90
1146	P10	114610	E5	DEBRIS	15
1146	P1000X	114600X	F6	FIRE DOOR	3
1146	P2	114602	H5	FLOOR TILE	2
1146	P7	114607	E5	PIPE JOINTS	80
1146	P6A	114606A	F6	STRAIGHT PIPE INSULSTSION	70
1146	P8	114608	F6	DEBRIS	2

BLDG NUMBER	SAMPLE NUMBER	LAB ID	CAD LOC	MATERIAL TYPE	TOTAL ASBESTOS
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1146	P6	114606	F6	STRAIGHT PIPE INSULSTION	60
1147	P1	114701	16	ONLY MASTIC IS POSITIVE	2
1148	P2	114802	В6	FLOOR TILE	3
1148	P1000X	114800X	C8	TRANSITE WALLBOARD	3
1148	999A	ASSUMED	15	TRANSITE WALLBOARD	50
1150	B5	31-08	E6	TANK INSULATION	67
1150	B4	31-07	F5	TANK INSULATION	65
1150	В3	31-06	17	PIPE JOINT INSULATION	2
1150	В7	31-10	E6	STRAIGHT PIPE INSULATION	40
1150	B8	31-11	F6	STRAIGHT PIPE INSULATION	27
1150	B2	31-05	17	PIPE JOINT INSULATION	2
1150	B1	31-04	E7	PIPE JOINT INSULATION	2
1150	B6	31-09	D6	TANK INSULATION	65
1150	2	31-02	G4	ACOUSTIC TILE	0
1150	B10	31-13	F7	GASKET	7
1150	3	31-03	J3	ACOUSTIC TILE	0
1150	1	31-01	H7	ACOUSTIC TILE	0
1150	B9	31-12	D6	STRAIGHT PIPE INSULATION	25
1153	P1000X	115300X	F7	WALL AND CEILING TRANSITE BOARD	3
1153	P2	115302	E6	MASTIC	2
1154	101	173-01	J6	SERPENTINE	0
1154	999C	ASSUMED	F4	TRANSITE WALLBOARD	50
1154	999B	ASSUMED	K6	FIRE DOOR	50
1154	999A	ASSUMED	16	FLOOR TILE	5
1154	103	173-03	K4	SERPENTINE	0
1154	102	173-02	K7	SERPENTINE	0
1155	P3	115503	H4	MASTIC UNDER TILE	0
1155	P3A	11553A	F5	MASTIC UNDER TILE	0
1155	999A	ASSUMED	14	REPLACEMENT TILE	0
1161	P5	116105	B5	FLOOR TILE	2
1161	P6	116106	G5	FLOOR TILE	2
1169	P1	116901	16	FLOOR TILE	2
1169	P1000X	116900X	E5	TRANSITE WALLBOARD	3
1185	999B	ASSUMED	G6	FLEXIBLE CONNECTOR	50
1185	999A	ASSUMED	D7	FLOOR TILE	5
1185	103	174-03	18	TEXTURED WITH HOLES	0
1185	102	174-02	D3	TEXTURED WITH HOLES	0
1185	101	174-01	15	TEXTURED WITH HOLES	0
1186	P1	118601	C4	FLOOR TILE	2
1186	P1000X	118600X	D4	FIXTURE PAPER	3
1187	101	171-01	E6	SERPENTINE	0
1187	103	171-03	K7	SERPENTINE	0
1187	999A	ASSUMED	C4	FLOOR TILE	5
1187	102	171-02	16	SERPENTINE	0
1189	P7	118907		DEBRIS	0
1189	P1	118901	I 4	FLOOR TILE	2
1189	P8	118908	D5	PIPE JOINTS	2
1189	101	25-01	H4	TAR WRAP	2

BLDG NUMBER	SAMPLE NUMBER	LAB ID	CAD LOC	MATERIAL TYPE	TOTAL ASBESTOS
	ujuda kalan kalan palan kalan palan kalan dalan malan				
1189	Р3	118903	D4	FLOOR TILE	2
1189	102	25-02	H4	TAR WRAP	2
1193	P1000X	119300X	J4	FIRE DOOR	3
1193	P14	119314	D7	TRANSITE WALLBOARD	85
1193	P10	119310	G8	FLOOR TILE	2
1193	P1	119301	K7	FLOOR TILE	0
1194	999A	ASSUMED	B6	FLOOR TILE	0
1194	102	039-02	F7		0
1194	101	039-01	Н6		0
1194	103	039-03	Н8	·	0
1195	112	043-12	F7		0
1195	108	043-08	H7		0
1195	113	043-13	G8		0
1195	102	043-02	G3		0
1195	115	043-15	E4		0
1195	103	043-03	G4		0
1195	116	043-16	E3		0
1195	109	043-09	H6	STRAIGHT PIPE	0
1195	106	043-06	H7	onmian vita	0
1195	105	043-05	H7	PIPE JOINTS	0
1195	104	043-04	H7	PIPE JOINTS	0
1195	999A	040 04	E7	FLOOR TILE	0
1195	114	043-14	I6	TEOOK TILE	0
1195	111	043-11	H6		0
1195	110	043-10	H6		0
1195	107	043-10	H7	•	0
1195	117				
1195		043-17	- E3		0
	101	043-01	F3	CIDS DOOD	0
1196	999A	ASSUMED	J4	FIRE DOOR	50
1199	P2	119902	H3	FLOOR TILE	2
1200	P3	120003	E6	SPRAY ON CEILING	10
1200	РЗА	120003A	F3	SPRAY ON CEILING	10
1200	81	0042-01	F6	ON PIPES LEADING TO ICE CHEST	0
1200	P999A	ASSUMED	G6	FIRE DOOR	50
1200	P19	120019	E3	FLOOR TILE	2
1200	P16	120016	G6	PIPE JOINT INSULATION	5
1200	P11	120011	G3	FLOOR TILE	2
1200	P22A	120022A	J6	INNER INSULATION	60
1200	P15	120015	G6	PIPE JOINT INSULATION	2
1200	P22	120022	J6	INNER INSULATION	60
1200	B2	0042-02	F6	ON PIPES LEADING TO ICE CHEST	0
1200	P8	120008	G5	FLOOR TILE	2
1200	P12	120012	G3	FLOOR TILE	2
1412	P7	141207	C7	FLOOR TILE	2
1412	999A	ASSUMED	D4	FIRE DOOR	50
1412	P6	141206	C7	FLOOR TILE	2
1416	P7	141607	G7	FLOOR TILE	10
1416	P6	141606	G7	FLOOR TILE	2

BLDG NUMBER	SAMPLE NUMBER	LAB ID	CAD LOC	MATERIAL TYPE	TOTAL ASBESTOS
=======	*****	222222	====	=======================================	= =======
1416	999A	ASSUMED	E7	FIRE DOORS	50
1425	P1354	14251354	G4	FLOOR TILE	0
1425	P1344	14251334	C4	FLOOR TILE	0
1425	P1350	14251350	J9	FLOOR TILE	0
1425	P1353	14251353	J5	FLOOR TILE	0
1425	999A	ASSUMED	B3	FLOOR TILE	0
1426	P1000X	142600X	D5	TRANSITE	3
1426	999A	ASSUMED	J6	CONNECTORS	5
1426	P2	142602	D7	ELBOWS	5
1426	P4	142604	D5	ELBOWS	80
1426	P1	142601	D7	STRAIGHT PIPE	35
1426	P3	142603	D5	STRAIGHT PIPE	5
1428	P23219	14282321	E6	FLOOR TILE	5
1428	P23220	14282322	E6	MASTIC	0
1434	P23052	23052	B5	FLOOR TILE	5
1434	P23053	23052	C4	FLOOR TILE	5
1434	P23130	23130	D2	FLOOR TILE	5
1434	P23131	23131	D2	FLOOR TILE	5
1434	999A	ASSUMED	E4	STRAIGHT PIPE	5
1436	P23215	14362321	C6	FLOOR TILE	5
1436	P23226	14362322	E3	FLOOR TILE	5
1437	101	0021-01	D6	PAPER COVERING ON CONCRETE	0
1437	102	0021-02	D7	PAPER COVERING CONCRETE	0
1439	999A	ASSUMED	C3	FLOOR TILE	5
1440	999A	ASSUMED	K6	FLEXIBLE DUCT CONNECTOR	50
1440	P23287	14402328	J6	FLOOR TILE	. 5
1440	P23292	14402329	L6	CEILING COVERING	5
1442	P23321	14422332	E5	FLOOR TILE UNDER CARPET	5
1442	P23324	14422332	J5	FLOOR TILE UNDER CARPET	- 5
1442	P23335	14422333	E5	FLEXIBLE DUCT CONNECTORS	95
1442	P23311	14422331	E5	TANK INSULATION	20
1442	P23312	14422331	E5	TANK INSULATION	20
1442	P23313	14422331	F5	FLEXIBLE DUCT CONNECTORS	65
1442	999A	ASSUMED	C5	FIRE DOORS	50
1444	P2344	14442344	C6	FLOOR TILE UNDER CARPET	5
1445	999A	ASSUMED	C3	FIRE DOORS (NEW)	50
1464	P23350	14642335	E7	FLOOR TILE UNDER CARPET & TILE	5
1464	P23343	14642334	G7	FLOOR TILE UNDER CARPET & UNDER TILE	5
1464	102	0033-02	C6	EXPOSED MASTIC	10
1464	103	0033-03	C6	TAR WRAP	0
1464	101	0033-01	B6	EXPOSED MASTIC	10
1464	999A	ASSUMED	F3	FIRE DOORS	0
1466	P2	146602	E7	BROWN/WHITE	0
1466	P1	146601	K8	BROWN/WHITE	0
1466	999A	ASSUMED	D4	FIRE DOORS	0
1467	P6	146706	G7	FLOOR TILE	2
1467	999A	ASSUMED	15	FIRE DOORS	50
1469	P1	146901	F7	FLOOR TILE	4

BLDG NUMBER	SAMPLE NUMBER	LAB ID	CAD LOC	MATERIAL TYPE	TOTAL ASBESTOS
		========	2025=		=======================================
1469	P1000X	146900X	B5	FIRE DOORS	3
1471	104	0034-04	13	PAPER	10
1471	106	0034-06	J7	PAPER	0
1471	107	0034-07	K3	PIPE JOINT	2
1471	999A	ASSUMED	B3	FLOOR TILE UNDER CARPET	5
1471	999B	ASSUMED	D3	FLOOR TILE	5
1471	105	0034-05	J5	PAPER	0
1471	999C	ASSUMED	D3	FIRE DOORS	50
1475	P14	147614	K4	PLASTER	2
1475	P1000X	147500X	Н9	FLEXIBLE DUCT CONNECTOR	3
1475	P2	147502	D7	FLOOR TILE	2
1475	P15	147515	K7	PIPE JOINT	5
1475	P7	147507	D8	FLOOR TILE	2
1475	999A	ASSUMED	G3	FIRE DOOR	50
1475	P1	147501	D7	FLOOR TILE	2
1490	P1	149001	G5	FLOOR TILE	3
1491	P1	149101	F6	FLOOR TILE	2
1494	999A	ASSUMED	C5	FLOOR TILE	0
1498	110	22-10	F4	PIPE JOINTS	2
1498	101	22-01	F7	ACOUSTICAL CEILING TILE	0
1498	102	22-02	C6	ACOUSTICAL CEILING TILE	0
1498	103	22-03	C4	ACOUSTICAL CEILING TILE	0
1498	104	22-04	J7	ACOUSTICAL CEILING TILE	0
1498	105	22-05	Н6	ACOUSTICAL CEILING TILE	0
1498	106	22-06	14	ACOUSTICAL CEILING TILE	0
1498	999A	ASSUMED	B4	FLOOR TILE	5
1498	107	22-07	K5	PIPE JOINTS	2
1498	108	22-08	K5	PIPE JOINTS	2
1498	109	22-09	K4	PIPE JOINTS	2
1499	109	24-09	J7	ELBOWS	5
1499	108	24-08	K6	PIPE VALVES	20
1499	107	24-07	K6	ELBOWS	20
1499	999B	ASSUMED	В3	FLOOR TILE	5
1499	999A	ASSUMED	F6	FLOOR TILE	5
1499	106	24-06	F5	ACOUSTICAL CEILING TILE	0
1499	105	24-05	D4	ACOUSTICAL CEILING TILE	0
1499	103	24-03	G4	ACOUSTICAL CEILING TILE	0
1499	102	24-02	G6	ACOUSTICAL CEILING TILE	0
1499	104	24-04	D6	ACOUSTICAL CEILING TILE	0
1499	101	24-01	J4	ACOUSTICAL CEILING TILE	0
1697	999A	ASSUMED	B4	FLOOR TILE	0
1802	P2A	180202A -	E4	FLOOR TILE	0
1802	P2	180202	E4	FLOOR TILE	3
1802	P4	1802	Н6	FLOOR TILE	3
1804	105 .	168-12	K4	TEXTURED	0
1804	104	168-11	J5	TEXTURED	. 0
1804	999B	ASSUMED	B6	FLOOR TILE	5
1804	999A	ASSUMED	J4	FLOOR TILE	5

BLDG NUMBER	SAMPLE NUMBER	LAB ID	CAD LOC	MATERIAL TYPE	TOTAL ASBESTOS
	=======	*****	333E	======================================	*****
1804	103	168-10	B6	SERPENTINE	0
1804	101	168-08	B6	SERPENTINE	0
1804	102	168-09	B6	SERPENTINE	0
1804	106	168-13	J6	TEXTURED	0
1804	A7	168-07	C5	DEBRIS	65
1804	A1	168-01	C4	AIRCELL	20
1804	A2	168-02	C6	AIRCELL	20
1804	A3	168-03	C4	AIRCELL	20
1804	A4	168-04	C4	MUD JOINTS	65
1804	A5	168-05	C6	MUD JOINTS	65
1804	A6	168-06	C5	MUD JOINTS	65
1805	102	170-02	G5	ACOUSTIC TILE	0
1805	101	170-01	D6	ACOUSTIC TILE	0
1805	999A	ASSUMED	C5	FIRE DOORS	50
1805	104	170-04	K4	TRANSITE WALLBOARD	20
1805	103	170-03	15	ACOUSTIC TILE	0
1806	999A	ASSUMED	B3	FLOOR TILE	0
1809	999A	ASSUMED	D4	FIRE DOORS	50
1809	P2B	180902B	85	GYPSUM BOARD	2
1809	P3	189003	F6	FLOOR TILE UNDER CARAPET	2
1809	P2A	180902A	C8	GYPSUM BOARD	2
1809	P2	180902	D4	GYBSUM BOARD	2
1810	999A	ASSUMED	D7	FIRE DOORS	50
1812	999A	ASSUMED	H7	FIRE DOORS	50
1812	P4	181204	C5	TRANSITE WALLBOARD	70
1813	9998	ASSUMED	F6	FIRE DOORS	50
1813	999A	ASSUMED	F6	FLEXIBLE CONNECTOR	50
1819	999A	ASSUMED	В6	FIRE DOOR	50
1822	999A	ASSUMED	C4	FLOOR TILE	5
1822	P18	182218	J4	TRANSITE BOARD ABOVE CEILING	60
1824	103	182-03	B6	PIN DOT	0
1824	A3	182-06	D4	PIPE JOINTS ALONG CEILING	75
1824	A2	182-05	D4	PIPE JOINTS ALONG CEILING	75
1824	A4	182-07	D5	STRAIGHT PIPE ABOVE CEILING	25
1824	101	182-01	C6	PIN DOT	0
1824	A1	182-04	D5	PIPE JOINTS ALONG CEILING	75
1824	102	182-02	C6	PIN DOT	0
1824	<b>A</b> 5	182-08	D5	STRAIGHT PIPE ABOVE CEILING	20
1824	A6	182-09	<b>D</b> 5	STRAIGHT PIPE ABOVE CEILING	20
1826	999A	ASSUMED	C6	FIRE DOORS	50
1826	P4	182604	D6	MASTIC	2
1831	P23132	18312313	J6	DUCT INSULATION	10
1831	102	0054-02	J6	TAR WRAP	0
1831	P23120	18312312	C6	FLOOR TILE	5
1831	101	0054-01	J6	TAR WRAP	0
1831	P23193	18312319	J6	DUCT INSULATION	15
1831	P23125	18312212	J6	DUCT INSULATION	40
1834	999A	ASSUMED	D3	FIRE DOORS	50

BLDG NUMBER	SAMPLE NUMBER	LAB ID	CAD LOC	MATERIAL TYPE	TOTAL ASBESTOS
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1834	Р3	183403	13	FLOOR TILE	2
1834	P4	183404	Н6	FLOOR TILE	10
1834	P1000X	183400X	J7	FLEXIBLE CONNECTORS	3
1834	P11	183411	J7	INSULATION ON FLUE PIPE	20
1837	999A	ASSUMED	K6	FIRE DOOR	50
1837	999B	ASSUMED	86	FLEXIBLE CONNECTORS	50
1901	P11	190111	J7	TRANSITE WALLBOARD	40
1901	Р7	190107	E5	FLOOR TILE	2
1901	P12	190112	J6	AIRCELL ON WALLS	35
1902	P10	1902	J5	FLOOR TILE	2
1902	P11	190211	14	TRANSITE WALLBOARD	85
1902	P14	190214	C4	TRANSITE WALLBOARD	85
1902	P15	190215	C3	FLOOR TILE	3
1903	103	180-04	F4	ACOUSTIC TILE	0
1903	999B	ASSUMED	D7	TRANSITE WALLBOARD AS PART OF CEILING	50
1903	104	180-01	C6	TRANSITE WALLBOARD	10
1903	102	180-03	G5	ACOUSTIC TILE	0
1903	999C	ASSUMED	В3	FLOOR TILE	5
1903	999D	ASSUMED	C3	FIRE DOORS	50
1903	101	180-02	F6	ACOUSTIC TILE	0
1906	P1	190601	16	FLOOR TILE	2
1906	P1A	190601A	17	MASTIC	2
1906	101	161-01	J6	ROPE GASKET	60
1906	P2	190602	J6	GASKETS	0
1907	P119	1907119	K5	FLOOR TILE	0
1907	P117	1907117	K6	AIRCELL	50
1908	P8	190808	15	NEW TRANSITE WALLBOARD	. 30
1908	999A	ASSUMED	B6	FIRE DOORS	50
1908	P10	190810	16	GASKET AT WALL PENETRATION	60
1911	P6	191106	C5	FLOOR TILE	5
1911	P5	191105	C5	FLOOR TILE	5
1911	P4	191104	15	FLOOR TILE	5
1911	P7	191107	17	TRANSITE WALLBOARD, INCLUDES CEILING	75
1912	101	167-01	J6	SERPENTINE	0
1912	102	167-02	J3	SERPENTINE .	0
1912	103	167-03	G4	SERPENTINE	0
1912	999A	ASSUMED	D4	FLOOR TILE COVERED BY CARPET	<b>`</b> 5
1915	999B	ASSUMED	C6	CANVAS CONNECTOR	50
1915	101	176-01	D6	SPECKLED	0
1915	102	176-02	16	SPECKLED	0
1915	103	176-03	J4	SPECKLED	0
1915	999A	ASSUMED	D4	FLOOR TILE	5
1916	999A	ASSUMED	E4	FLEXIBLE CONNECTOR	50
1916	101	179-01	K5	ACOUSTIC TILE	0
1916	102	179-02	D6	ACOUSTIC TILE	0
1916	103	179-03	<b>D</b> 5	ACOUSTIC TILE	0
1916	999B	ASSUMED	E6	FIRE DOORS	50
1916	999C	ASSUMED	<b>D</b> 5	FLOOR TILE	5

BLDG NUMBER	SAMPLE NUMBER	LAB ID	CAD LOC	MATERIAL TYPE	TOTAL ASBESTOS
2222222	=========	<b>= 1 3 4 5 5 5</b>			
1917	102	164-02	G4	ACOUSTIC TILE	0
1917	106	164-06	G5	TRANSITE WALLBOARD	20
1917	101	164-01	D3	ACOUSTIC TILE	0
1917	103	164-03	G3	ACOUSTIC TILE	0
1917	999A	ASSUMED	C3	FLOOR TILE	5
1917	999B	ASSUMED	F5	FLEXIBLE CONNECTOR	50
1917	104	164-04	G5	WALL TILE, DOTS	0
1917	105	164-05	F5	WALL TILE, DOT	0
1920	P6	192006	B6	PIPE JOINTS ABOVE DROP CEILING	65
1920	P4	192004	E5	FLOOR TILE	2
1920	P5	192005	B5	AIRCELL ABOVE DROP CEILING	80
1922	P1000X	192200X	D4	FLEXIBLE CONNECTOR	3
1922	P5	192205	H6	FLOOR TILE	0
1923	P1	192301	J4	TRANSITE WALLBOARD	25
1931	P8	193108	C4	TRANSITE WALLBOARD	85
1931	P1000X	193100X	C5	FLEXIBLE CONNECTOR	3
1931	999A	ASSUMED	B4	TRANSITE WALLBOARD ADDED	50
1934	999A	ASSUMED	D7	FIRE DOORS	50
1934	P3	193403	J6	FLOOR TILE	2
1935	104	166-04	16	STRAIGHT PIPE	20
1935	101	166-01	13	SERPENTINE	0
1935	102	166-02	J3	SERPENTINE	0
1935	103	166-03	13	SERPENTINE	0
1938	999A	ASSUMED	B3	FLOOR TILE	5
1938	999B	ASSUMED	B6	FLEXIBLE CONNECTOR	50
1938	999C	ASSUMED	B7	FIRE DOORS	50
1949	999A	ASSUMED	B6	FIRE DOOR	50
1949	P7	194907	B6	AIRCELL. METAL CASING SPLIT & DAMAGED	35
1950	P1188	19501188	B4	AIRCELL METAL CASING IS DAMAGED	65
1950	999A	ASSUMED	E6	FIRE DOORS	50
1950	P1185	19501185	K4	FLOOR TILE	5
1952	101	185-01	J6		0
				SERPENTING	0
1952 1952	102 103	185-02 185-03	J7 E4	SERPENTINE SERPENTINE	0
1952	103	185-03	G6	PITTED	0
1952	105		E6	PITTED	0
1952	106	185-05 185-06	F6	PITTED	0
					5
1952	999A	ASSUMED	C3	FLOOR TILE	
1953	P1	195301	G6	FLOOR TILE	2
1953	P1A	195301A	C6	MASTIC	2
1956	101	181-01	F4	ACOUSTIC TILE	0
1956	102	181-02	D4	ACOUSTIC TILE	0
1956	103	181-03	D7	ACOUSTIC TILE	0
1961	P8	196108	J4	FLOOR TILE	2
1961	999 <b>A</b>	ASSUMED	J7	FLEXIBLE CONNECTOR	50
1961	P3	196103	15	FLOOR TILE	2
1961	P5	196105	J5	FLOOR TILE	2
1962	P1A	196201A	16	FLOOR TILE	2

BLDG NUMBER	SAMPLE NUMBER	LAB ID	CAD LOC	MATERIAL TYPE	TOTAL ASBESTOS
2222222	2222222	=======	28222		
1962	P1000X	196200X	C6	FIRE DOORS	3
1962	P10A	196210A	F6	AIRCELL	25
1962	P4A	196204A	D6	GYPSUM BOARD	3
1962	P4	196204	F6	GYPSUM BOARD	2
1962	P1	196201	J5	FLOOR TILE	2
1962	Р7	196207	D5	GYPSUM BOARD	75
1968	P10	196810	G5	FLOOR TILE	2
1968	P9	196809	G5	FLOOR TILE	2
1968	P8	196808	G5 ·	MASTIC	2
1968	P11	196811	G6	FLOOR TILE	2
1970	P1	197001	J7	FLOOR TILE	2
1970	P3	197003	K6	GYPSUM BOARD	65
1970	P1000X	197000X	J7	FIRE DOORS	3
2101	101	175-01	J4	PORES, FISSURES	0
2101	102	175-02	G3	PORES, FISSURES	0
2101	103	175-03	D8	PORES, FISSURES	0
2101	999A	ASSUMED	B2	FLOOR TILE	5
2101	999B	ASSUMED	C8	FIRE DOORS	50
2105	999A	ASSUMED	B2	FLOOR TILE	5
2105	101	169-01	I2	FISSRED	0
2105	102	169-02	G4	FISSURED	0
2105	103	169-03	C5	FISSURED	0
2105	999B	ASSUMED	C8	FIRE DOORS	50
2105	104	169-04	E5	ACOUSTIC TILE	0
2115	Р3	211503	C5	FLOOR TILE	2
2118	Р3	211803	F5	FLOOR TILE	2
2118	P2	211802	15	MASTIC	2
2118	P1000X	211800X	G4	FIXTURE PAPER	3
2120	P1000X	212000X	J5	FLEXIBLE CONNECTORS	3
2393	101	184-01	J6	FISSURES	0
2393	102	184-02	J8	FISSURES	0
2393	103	184-03	J7	FISSURES	0
2393	104	184-04	J5	GLUED TO DOOR	0
2436	101	183-01	J6	TRANSITE WALLBOARD	17
2436	999A	ASSUMED	J6	FLEXIBLE CONNECTORS	50
2436	999B	ASSUMED	C3	FLOOR TILE	5
2470	P11	247011	F4	TANK INSULATION	2
2470	P2	247002	F6	FLOOR TILE	2
2470	999A	ASSUMED	C6	FIRE DOOR	50
2476	P2A	247602A	16	PIPE JOINTS	5
2476	P2	247602	14	PIPE JOINTS	5
2590	B2	0017-02	15	DOT GOUGE	0
2590	B1	0017-01	G6	DOT GOUGE	0
2590	999A	ASSUMED	D2	FLOOR TILE	5
2590	101	0017-03	15	DOT GOUGE	0
2591	103	0052-03	E3	ACOUSTIC TILE	0
2591	108	0052-08	E7	DUCT INSULATION	80
2591	999A	ASSUMED	F6	FLOOR TILE	5

BLDG NUMBER	SAMPLE NUMBER	LAB ID	CAD LOC	MATERIAL TYPE	TOTAL ASBESTOS
	=======================================		22202		
2591	B1	0051-11	G3	ACOUSTIC TILE	0
2591	101	0052-01	G3	ACOUSTIC TILE	0
2591	102	0052-02	I 4	ACOUSTIC TILE	0
2591	107	0052-07	J8	EXTERIOR COATING	0
2591	106	0052-06	J8	EXTERIOR COATING	0
2591	104	0052-04	F6	ACOUSTIC TILE	0
2591	105	0052-05	G5	ACOUSTIC TILE	0
2591	999B	ASSUMED	E7	FLEXIBLE CONNECTOR	50
2591	110	0052-10	E7	DUCT INSULATION	80
2591	109	0052-09	E7	DUCT INSULATION	80
2592	105	32-05		FLOOR MASTIC	5
2592	109	32-12		ACOUSTICAL CEILING TILE	0
2592	999A	ASSUMED	C2	FLOOR TILE	5
2592	111	32-14		ACOUSTICAL CEILING TILE	0
2592	103	32-03		ACOUSTICAL CEILING TILE	0
2592	102	32-02		ACOUSTICAL CEILING TILE	0
2592	104	32-04		ACOUSTICAL CEILING TILE	0
2592	106	32-09		SPRAYON CEILING	0
2592	107	32-10		SPRAYON CEILING	0
2592	108	32-11		SPRAYON CEILING	0
2592	B1	32-06		TANK INSULATION	0
2592	B2	32-07		FLU STACK INSULATION	0
2592	В3	32-08		FLU STACK INSULATION	35
2592	101	32-01		ACOUSTICAL CEILING TILE	0
2592	112	32-15		ACOUSTICAL CEILING TILE	0
2592	999B	ASSUMED		FIRE DOORS	50
2592	113	32-16		ACOUSTICAL CEILING TILE	0
2592	114	32-17		ACOUSTICAL CEILING TILE	0
2592	110	32-13		ACOUSTICAL CEILING TILE	0
2593	P1	259301	E6	FLOOR TILE	2
2593	P1000Y	259300Y	E4	FLEXIBLE CONNECTORS	3
2593	P1A	259301A	F6	FLOOR TILE	. 2
2593	P1000X	259300X	E5	FIRE DOORS	3
2593	P1B	259301B	F6	FLOOR TILE	2
2594	120	27-20	16	OATMEAL	0
2594	119	27-19	H5	OATMEAL	0
2594	118	27-18	16	OATMEAL	ũ
2594	117	27-17	F6	PIPE JOINTS	0
2594	116	27-16	F6	STRAIGHT PIPE	0
2594	115	27-15	E6	TANK INSULATION	C
2594	114	27-14	E6	TANK INSULATION	C
2594	113	27-13	E6	TANK INSULATION	0
2594	112	27-12	F7	TANK INSULATION	C
2594	111	27-11	F7.	TANK INSULATION	C
2594	110	27-10	F7	TANK INSULATION	C
2594	109	27-09	G7	TANK INSULATION	C
2594	108	27-03	G6	TANK INSULATION	C
LUUT	100	27-07	F6	TANK INSULATION	Č

BLDG NUMBER	SAMPLE NUMBER	LAB ID	CAD LOC	MATERIAL TYPE	TOTAL ASBESTOS
=======	******	*****	=====		
2594	106	27-06	G6	TANK INSULATION	0
2594	105	27-05	G6	TANK INSULATION	0
2594	104	27-04	F6	TANK INSULATION	0
2594	103	27-03	G5	TANK INSULATION	0
2594	102	27-02	G6	TANK INSULATION	0
2594	101	27-01	G5	TANK INSULATION	0
2594	999B	ASSUMED	D7	FIRE DOORS	50
2594	999A	ASSUMED	E3	FLOOR TILE	5
2594	126	27-26	18	PIN GOUGE	0
2594	125	27-25	H6	PIN GOUGE	0
2594	124	27-24	G6	PIN GOUGE	0
2594	122	27-22	Н6	PIN GOUGE	0
2594	123	27-23	H7	PIN GOUGE	0
2594	121	27-21	Н6	PIN GOUGE	0
2907	102	0053-02	D6	GOUGED	0
2907	101	0053-01	E7	GOUGED	0
2907	103	0053-03	C3	GOUGED	0
2990	999A	ASSUMED	C7	FIRE DOORS	50
2991	101	178-01	E3	TRANSITE WALLBOARD AT FLUE	42
2991	P1000X	299100X	E3	STRAIGHT PIPE AT HANGERS	. 3
3065	P1000X .	306500X	C4	TRANSITE PLASTER	3
3065	P5	306505	C4	PLASTER	5
3065	P1	306501	F5	FLOOR TILE	10
3066	Р3	306603	F7	PLASTER	2
3066	101	0044-01	F3	COATING OVER GYPSUM BOARD	2
3066	P6	306606	H4	FLOOR TILE	3
3066	P4 -	306604	G7	TRANSITE WALLBOARD	75
3066	P5	3066	G7	FLEXIBLE CONNECTORS	80
3066	102	0044-02	C5	COATING OVER GYPSUM BOARD	2
3069	P1	306901	C4	TRANSITE WALLBOARD	55
3069	P6	306906	C5	FLOOR TILE	2
3069	P3	306903	D4	PLASTER	5
3069	999A	ASSUMED	C4	FIRE DOORS	50
3070	999A	ASSUMED	C4	FIRE DOORS	50
3070	999B	ASSUMED	C4	FLEXIBLE CONNECTOR	50
3070	P3	307003	C4	PLASTER	5
3070	P4	307004	D7	FLOOR TILE	3
3070	P2	307002	C4	TRANSITE WALLBOARD	75
3126	P2	312602	F8	FLOOR TILE	2
3126	P3	312603	Н8	FLOOR TILE	2
3126	999A	ASSUMED	F4	FIRE DOORS	50
3128	999A	ASSUMED	15	FLOOR TILE	5
3136	P2464	31362464	C5	FLOOR TILE	5
3136	P23140	31362314	F7	TAR SPACKLING ON FIBERGLASS	10
3137	P23162	31372316	J7	FLOOR TILE	5
3137	999B	ASSUMED	D3	FIRE DOORS	50
3137	P23156	31372315	F8	AIRCELL STRAIGHT PIPE	5
3137	P23157	31372315	F8	PIPE JOINTS, HARD	10
J1J/	L72721	313/2313	1 0	111 L OUTHIU, HARD	•

BLDG Number	SAMPLE NUMBER	LAB ID	CAD LOC	MATERIAL TYPE	TOTAL ASBESTOS
		#######	*****		
3137	999A	ASSUMED	G6	FLOOR TILE	5
3138	101	26-01	J6	SERPENTINE	0
3138	102	26-02	J6	SERPENTINE	0
3138	103	26-03	J6	SERPENTINE	0
3138	104	<del>-</del> 26-04	J7	PEG BOARD	0
3138	105	26-05	J7	PEG BOARD	0
3138	106	26-06	J8	FLOOR TILE	1
3138	107	26-07	F6	FLOOR TILE	5
3138	112	26-12	E2	DEBRIS FROM BOILER	0
3138	108	26-08	H4	TANK INSULATION	35
3138	109	26-09	15	TANK INSULATION	15
3138	110	26-10	I 4	STRAIGHT PIPE INSULATION	35
3138	111	26-11	H4	STRAIGHT PIPE INSULATION	25
3138	113	26-13	E6	TANK INSULATION	. 0
3138	114	26-14	D3	TANK INSULATION	0
3138	115	26-15	D3	PIPE ELBOW	0
3138	117	26-17	C5	TANK INSULATION	0
3138	116	26-16	C4	TANK INSULATION	0
3145	P1	314501	G4	FLOOR TILE	2
3145	999A	ASSUMED	C5	FLEXIBLE CONNECTORS	50
3145	999B	ASSUMED	C5	FIRE DOOR	50
3145	P2	314502	F5	FLOOR TILE	2
3151	P23002	31512300	D7	FLOOR TILE	5
3151	P23007	31512300	J3	FLOOR TILE	5
3151	P23008	31512300	J3	FLOOR TILE	10
3151	999A	ASSUMED	J4	FIRE DOOR	50
3153	999A	ASSUMED	J3	FIRE DOOR	50
3153	999B	ASSUMED	H7	FLOOR TILE	5
3165	999A	ASSUMED			50
3165	101	0019-01	D4 <sub>.</sub> E5	FIRE DOORS	
3165	102			FLOOR TILE	0
3230	999A	0019-02 ASSUMED	E5 H4	FLOOR TILE	1 50
				FIRE DOORS	
3230 3230	602	0020-02	F4	TAR WRAP	0
	601	0020-01	F3	TAR WRAP	0
3231	P6	323106	E4	FLOOR TILE	0
3231	P7	323107	E7	FLOOR TILE	0
3231	P3	323103	. 15	FLOOR TILE	0
3231	P12	323112	D4	FLOOR TILE	0
3231	P13	323113	E5	FLOOR TILE	0
3231	P1000Z	323100Z	D3	TRANSITE BOARD	0
3231	999A	ASSUMED	E5	FIRE DOORS	0
3231	P2	323102	15	PIPE JOINTS	0
3231	P5	323105	E7	FLOOR TILE	0
3232	999A	ASSUMED	E5	FIRE DOOR	50
3232	P8	323208	E5	FLOOR TILE	3
3232	P10	323210	E4	FLOOR TILE	2
3232	P7	323207	E6	FLOOR TILE	2
3234	P2	323402	D5	FLOOR TILE	2

BLDG NUMBER =======	SAMPLE NUMBER =======	LAB ID	CAD LOC	MATERIAL TYPE	TOTAL ASBESTOS
3234	999A	ASSUMED	15	FIRE DOOR	50
3235	999A	ASSUMED	D4	FIRE DOORS	50
3237	P23168	32372316	E2	FLOOR TILE	5
3237	P23170	32372317	E2	FLOOR TILE	5
3237	P23169	32372316	G5	FLOOR TILE	0
3237	999A	ASSUMED	E3	FIRE DOORS .	0
7395	999A	ASSUMED	D3	FLOOR TILE	5

# INDIVIDUAL BUILDING REPORT INDEX

	vo	LUME	п		VOLUME III					
В	<b>BUILDING NUMBERS</b>				BU	ILDIN	IG NU	MBEF	RS	
20	69	80	81	83	212	213	214	215	216	
96	98	99	182	184	219	220	221	222	226	
187	189	190	191	193	231	235	238	240	246	
200	201	202	203	204	247	256	257	258	259	
205	206	208	210	211	268	269	270	291	292	
	V	LUM	E IV			voi	UME	V		
BUILDING NUMBERS				ERS	<b>BUILDING NUMBERS</b>					
303	305	307	309	312	334	335	336	337	340	
313	314	315	316	317	342	345	346	347	348	
318	319	320	321	322	349	352	353	354	355	
323	324	325	326	327	357	358	359	360	361	
328	329	330	331	332	362	365	366	372	374	
<b>VOLUME VI</b>				VOLUME VII						
В	UILD	ING N	UMBF	ERS	BU	ILDIN	G NU	MBER	S	
378	379	380	381	382	705	707	708	709	712	
384	388	390	392	394	714	715	716	718	737	
397	399	435	470	498	740	741	745	801	802	
=0=	=0.5		=0.0	=00	005	006	005	000	010	

805 806 807 808 812

815 950 1000 1001 1017

505 506 507 508 509

629 630 631 701 704

VOLUME VIII				VOLUME IX					
Bi	UILDII	NG NU	IMBE	RS	BI	JILDII	NG NU	(MBE	RS -
1018	1021	1023	1024	1025	1141	1142	1143	1144	1145
1030	1084	1089	1099	1107	1146	1147	1148	1150	1153
1108	1109	1112	1113	1114	1154	1155	1161	1169	1170
1116	1123	1125	1126	1131	1171	1182	1185	1186	1187
1132	1133	1134	1138	1140	1188	1189	1193	1194	1195

VOLUME X				VOLUME XI					
В	UILDII	NG NU	MBE	RS	В	J <b>ILDI</b>	NG NU	MBE	RS
1196	1197	1199	1200	1412	1471	1475	1490	1491	1493
1416	1423	1425	1426	1428	1494	1495	1496	1498	1499
1434	1436	1437	1439	1440	1696	1697	1802	1804	1805
1442	1444	1445	1462	1464	1806	1809	1810	1812	1813
1465	1466	1467	1469		1818	1819	1822	1824	1826

VOLUME XII					VOLUME XIII					
В	U <b>ILDI</b>	NG NU	MBE	RS	в	J <b>ILDI</b> I	NG NU	(MBE	RS	
1831	1834	1837	1901	1902	1953	1956	1961	1962	1968	
1903	1906	1907	1908	1911	1970	2101	2102	2105	2111	
1912	1915	1916	1917	1920	2113	2115	2117	2118	2120	
1922	1923	1931	1934	1935	2393	2436	2470	2473	2476	
1938	1946	1949	1950	1952	2477	2590	2591	2592	2593	

# **VOLUME XIV**

#### **BUILDING NUMBERS**

2594	2903	2904	2905	2907

- 2990 2991 3065 3066 3067
- 3069 3070 3074 3075 3086
- 3087 3122 3126 3128 3136
- 3137 3138 3140 3141 3145
- 3151 3153 3165 3170 3230
- 3231 3232 3234 3235 3237
- 7326 7386 7395

```
total 49
  16 drwxrwxr-x
                    2 ritchie
                                              7536 Feb 17 13:02 correct 293 Jan 3 14:51 ftbel.ptb
                                users
     - rwxrwxrwx
                    l ritchie
                                users
     drwxrwxr-x
                    2 ritchie
                                               672 Feb 17 13:04 newdgn
                                users
                                             14592 Feb 17 14:38 plots
  30 drwxrwxr-x
                    2 ritchie
                                users
./correct:
total 55496
 150 -rwxrwxr-x
                    l ritchie users
                                             75264 Feb
                                                         8 18:01 fb1000-1.dgn
  52 -rwxrwxr-x
                    l ritchie users
                                             26112 Feb
                                                         8
                                                           18:02 fb1000-b.dgn
 160 -rwxrwxr-x
                    l ritchie users
                                             80384 Feb
                                                         8 18:02 fb1001.dgn
 292 -rwxrwxr-x
                    l ritchie users
                                            147456 Feb
                                                         8 18:06 fb1017-1.dgn
 127 -rwxrwxr-x
                               users
                    l ritchie
                                            64512 Feb
                                                         8 18:08 fb1017.dgn
 120 -rwxrwxr-x
                                            60928 Feb 8 18:09 fb1018.dgn
24576 Feb 15 16:39 fb1021.dgn
                    1 ritchie
                                users
  49 -rwxrwxr-x
                    l ritchie users
  81 -rwxrwxr-x
                    l ritchie
                                            40960 Feb
49664 Feb
                               users
                                                         8 18:13 fb1023.dgn
  98 -rwxrwxr-x
                    l ritchie users
                                                           18:13 fb1024.dgn
                                                         8
 120 -rwxrwxr-x
                                                         8 18:22 fb1025.dgn
8 18:24 fb1030-1.dgn
                    l ritchie
                               users
                                            60928 Feb
 122 -rwxrwxr-x
                    l ritchie users
                                            61952 Feb
  82 -rwxrwxr-x
                    l ritchie users
                                                         8 18:25 fb1030-2.dgn
                                            41472 Feb
 213 -rwxrwxr-x
                    l ritchie users
                                                         8 18:25 fb1084.dgn
                                           107520 Feb
  84 -rw-rw-r--
                    l ritchie
                               users
                                            42496 Feb
                                                         8 18:26 fb1089.dgn
 262 -rwxrwxr-x
                    l ritchie
                                           132608 Feb
                                users
                                                        8 18:27 fb1099-1.dgn
 101 -rwxrwxr-x
                    l ritchie
                                            51200 Feb
59392 Feb
                                users
                                                        8 18:27 fb1099-b.dgn
 117 -rwxrwxr-x
                    l ritchie
                                                        8 18:28 fb1107.dgn
                                users
 137 -rwxrwxr-x
                                            69632 Feb
                    l ritchie
                                users
                                                        8
                                                          18:36 fb1108-1.dgn
  98 -rwxrwxr-x
                    l ritchie
                                            49664 Feb
                                                        8 18:36 fb1108-2.dgn
8 18:37 fb1109.dgn
                                users
  99 -rwxrwxr-x
                    l ritchie
                                            50176 Feb
                                users
  49 -rwxrwxr-x
                    l ritchie
                                users
                                            24576 Feb
                                                        8 18:41 fb1112.dgn
 117 -rwxrwxr-x
                    l ritchie
                                            59392 Feb
                               users
                                                        8
                                                          18:41 fb1113.dgn
  74 -rwxrwxr-x
                    l ritchie
                                users
                                            37376 Feb
                                                        8 18:42 fb1114.dgn
101 -rwxrwxr-x
                   l ritchie
                                users
                                            51200 Feb
                                                        8 18:53 fb1116.dgn
101 -rwxrwxr-x
                   l ritchie
                                                        8 18:58 fb1123.dgn
                               users
                                            51200 Feb
 58 -rwxrwxr-x
                   l ritchie
                               users
                                            29184 Feb
                                                       13 13:00 fb1125.dgn
  73 -rwxrwxr-x
                   l ritchie
                                                        8 18:58 fb1126.dgn
8 18:59 fb1131.dgn
                               users
                                            36864 Feb
103 -rwxrwxr-x
                   l ritchie
                                            52224 Feb
                               users
108 -rwxrwxr-x
                   l ritchie
                               users
                                            54784 Feb
                                                        8 19:00 fb1132.dgn
146 -rwxrwxr-x
                                            73216 Feb
24576 Feb
46592 Feb
32256 Feb
32256 Feb
                   l ritchie
                               users
                                                        8 19:02 fb1133.dgn
 49 -rwxrwxr-x
                   l ritchie
                               users
                                                        8 19:04 fb1134.dgn
 92 -rwxrwxr-x
                   l ritchie
                               users
                                                        8 19:07 fb1138.dgn
 64 -rwxrwxr-x
                   l ritchie
                               users
                                                        8 19:08 fb1140.dgn
 64 -rwxrwxr-x
                   1 ritchie
                               users
                                                        8 19:10 fb1141.dgn
    -rwxrwxr-x
                   l ritchie
                                            38400 Feb
                                                         19:15 fb1142.dgn
19:49 fb1143.dgn
19:51 fb1144.dgn
                               users
                                                        8
 87 -rwxrwxr-x
                   l ritchie
                               users
                                            44032 Feb
                                                        8
 68 -rwxrwxr-x
                   l ritchie
                                            34304 Feb
                               users
                                                        8
 53 -rwxrwxr-x
                   l ritchie
                               users
                                            26624 Feb
                                                         19:55 fb1145.dgn
101 -rw-rw-r--
                   l ritchie
                               users
                                            51200 Feb
                                                        9 12:23 fb1146.dgn
159 -rw-rw-r--
                   l ritchie
                                           79872 Feb
45568 Feb
                               users
                                                        9 12:25 fb1147.dgn
 90 -rw-rw-r--
                   l ritchie users
                                                        9
                                                          12:30 fb1148.dgn
111 -rwxrwxr-x
                                           56320 Feb
29696 Feb
                   l ritchie
                                                        9 12:32 fb1150-b.dgn
9 12:32 fb1150-c.dgn
9 12:33 fb1150.dgn
                               users
 59 -rwxrwxr-x
                   l ritchie users
 77 -rwxrwxr-x
                   l ritchie users
                                            38912 Feb
115 -rw-rw-r--
                   l ritchie users
                                            58368 Feb
                                                        9 12:33 fb1153.dgn
 81 -rwxrwxr-x
                   l ritchie
                                           40960 Feb
                               users
                                                        9 12:35 fb1154.dgn
 88 -rw-rw-r--
                   l ritchie
                                           44544 Feb
                               users
                                                        9 12:36 fb1155.dgn
 90 -rwxrwxr-x
                   l ritchie
                              users
                                           45568 Feb
39424 Feb
                                                        9 12:39 fb1161.dgn
 78
   -rw-rw-r--
                   l ritchie users
                                                        9
                                                          12:49 fb1169.dgn
 71
   -rw-rw-r--
                   l ritchie users
                                           35840 Feb
                                                        9
                                                          13:18 fb1170.dgn
 91 -rw-rw-r--
                   l ritchie users
                                           46080 Feb
                                                        9 13:20 fb1171.dgn
 76 -rw-rw-r--
                   l ritchie users
                                           38400 Feb
                                                        9 13:21 fb1182.dgn
 87 -rwxrwxr-x
                   l ritchie users
                                           44032 Feb
                                                      15 16:49 fb1185.dgn
417 -rw-rw-r--
                   l ritchie
                                          210944 Feb
39936 Feb
46592 Feb
                              users
                                                       9 13:23 fb1186.dgn
 79 -rwxrwxr-x
                   l ritchie users
                                                       9 13:23 fb1187.dgn
 92 -rw-rw-r--
                  l ritchie users
                                                       9 13:25 fb1188.dgn
9 13:32 fb1189.dgn
258 -rw-rw-r--
                  l ritchie users
                                          130560 Feb
177 -rw-rw-r--
                  l ritchie users
                                           89088 Feb
                                                       9 13:40 fb1193.dgn
```

```
81 -rwxrwxr-x
                        l ritchie users
l ritchie users
                                                   40960 Feb
   157 -rwxrwxr-x
                                                                9 13:42 fb1194.dgn
                                                   78848 Feb 15 16:50 fb1195.dgn
     55 -rw-rw-r--
                        l ritchie users
                                                                9 13:43 fb1196.dgn
                                                   27648 Feb
    54 -rw-rw-r--
                        l ritchie users
                                                   27136 Feb
                                                                9 13:45 fb1197.dgn
9 13:46 fb1199.dgn
    70 -rw-rw-r--
                        l ritchie users
                                                  35328 Feb
72192 Feb
   144 -rwxrwxr-x
                        l ritchie users
                                                                9 13:48 fb1200.dgn
    77 -rwxrwxr-x
                        l ritchie users
                                                  38912 Feb
                                                                9 13:49 fb1412.dgn
   103 -rwxrwxr-x
                       l ritchie users
                                                               9 14:14 fb1416.dgn

9 14:16 fb1423.dgn

9 14:18 fb1425-1.dgn

9 14:33 fb1425-2.dgn

14:39 fb1426.dgn
                                                  52224 Feb
    61 -rwxrwxr-x
                       l ritchie
                                    users
                                                  30720 Feb
   196 -rwxrwxr-x
                       l ritchie users
                                                  98816 Feb
80896 Feb
   161 -rwxrwxr-x
                       l ritchie users
   118 -rw-rw-r--
                       l ritchie users
                                                  59904 Feb
    83 -rwxrwxr-x
                                                 41984 Feb
77312 Feb
58368 Feb
67584 Feb
30720 Feb
                       l ritchie users
                                                               9 14:39 fb1428.dgn
   154 -rwxrwxr-x
                       l ritchie users
                                                               9 14:41 fb1434-1.dgn
   115 -rwxrwxr-x
                       l ritchie users
                                                               9 14:42 fb1434-2.dgn
   133 -rwxrwxr-x
                       l ritchie users
                                                               9 14:43 fb1436.dgn
   61 -rwxrwxr-x
                       l ritchie users
l ritchie users
                                                              9 14:44 fb1437.dgn
9 14:44 fb1439.dgn
9 14:45 fb1440-1.dgn
    66 -rwxrwxr-x
                                                  33280 Feb
  235 -rwxrwxr-x
                       l ritchie
                                   users
                                                118784 Feb
   76 -rwxrwxr-x
                       l ritchie users
                                                              9 14:46 fb1440-2.dgn
                                                 38400 Feb
  178 -rwxrwxr-x
                       l ritchie users
                                                89600 Feb
81408 Feb
44032 Feb
134656 Feb
                                                              9 14:49 fb1442-1.dgn
  162 -rwxrwxr-x
                       1 ritchie users
                                                              9 14:51 fb1442-2.dgn
   87 -rwxrwxr-x
                       l ritchie
                                   users
                                                              9 14:54 fb1444.dgn
  266 -rwxrwxr-x
                       l ritchie
                                   users
                                                                14:56 fb1445.dgn
   72 -rwxrwxr-x
                                                              9
                      l ritchie
                                   users
                                                              9 14:56 fb1462.dgn
                                                 36352 Feb
  290 -rwxrwxr-x
                      l ritchie
                                                146432 Feb
                                                              9 14:59 fb1464.dgn
9 15:01 fb1466.dgn
9 15:02 fb1467.dgn
9 15:03 fb1469.dgn
                                   users
  314 -rwxrwxr-x
                      l ritchie
                                   users
                                                158720 Feb
   87 -rw-rw-r--
                      l ritchie
                                   users
                                                 44032 Feb
   99 -rw-rw-r--
                      l ritchie
                                   users
                                                 50176 Feb
  105 -rwxrwxr-x
                      l ritchie
                                               53248 Feb
59392 Feb
                                   users
                                                              9 15:04 fb1471.dgn
  117 -rw-rw-r--
                      l ritchie users
                                                              9 15:14 fb1475.dgn
   75 -rw-rw-r--
                      l ritchie users
                                                 37888 Feb
                                                              9 15:14 fb1490.dgn
   77 -rw-rw-r--
                      l ritchie users
                                                 38912 Feb
                                                                15:14 fb1491.dgn
                                                              9
   55
     -IWXIWXI-X
                      l ritchie
                                                27648 Feb
54272 Feb
                                                             9 15:14 15:13.1.dgn
9 15:16 fb1493.dgn
9 15:17 fb1494a.dgn
9 15:18 fb1495.dgn
9 15:20 fb1496.dgn
                                   users
 107 -rwxrwxr-x
                      l ritchie users
  69 -rw-rw-r--
                      l ritchie users
                                                34816 Feb
27648 Feb
  55 -rwxrwxr-x
                      l ritchie users
 126 -rwxrwxr-x
                     1 ritchie users
                                                64000 Feb
58880 Feb
25600 Feb
                                                              9 15:25 fb1498.dgn
 116 -rwxrwxr-x
                      l ritchie users
                                                             9 15:28 fb1499.dgn
  51 -rwxrwxr-x
                     l ritchie users
  56 -rwxrwxr-x l ritchie users
81 -rwxrwxr-x l ritchie users
12 -rwxrwxr-x l ritchie users
                                                             9 15:29 fb1696.dgn
                                                28160 Feb
                                                               15:30 fb1697.dgn
                                                             9
                                                40960 Feb
 112 -rwxrwxr-x
                                                                15:31 fb1802.dgn
                                                             9
                                                           9 15:36 fb1804-a.dgn
9 15:33 fb1804.dgn
13 15:38 fb1805.dgn
                                                56832 Feb
 110 -rwxrwxr-x
                   l ritchie users
                                                55808 Feb
  72 -rwxrwxr-x
                     l ritchie users
                                                36352 Feb
  60 -rwxrwxr-x
                     l ritchie users
                                              30208 Feb
60416 Feb
38912 Feb
106496 Feb
                                                             9 15:37 fb1806.dgn
 119 -rw-rw-r--
                     l ritchie users
                                                             9 15:40 fb1809.dgn
 77 -rw-rw-r--
                     l ritchie users
211 -rw-rw-r--
                                                             9
                                                               15:45 fb1810.dgn
                     l ritchie users
 63 -rwxrwxr-x
                                                               15:49 fb1812.dgn
                                                             9
                     l ritchie
                                 users
                                                31744 Feb
                                                               15:50 fb1813.dgn
16:05 fb1818.dgn
 78 -rwxrwxr-x
                     l ritchie users
                                               39424 Feb
 78 -rwxrwxr-x
                     l ritchie users
                                               39424 Feb
60416 Feb
57856 Feb
58880 Feb
                                                            9 16:06 fb1819.dgn
119 -rwxrwxr-x
                     l ritchie users
114 -rwxrwxr-x
                                                             7
                                                               14:23 fb182.dgn
                     l ritchie users
                                                            9 16:07 fb1822.dgn
116 -rwxrwxr-x
                     l ritchie users
                                                            9 16:20 fb1824-a.dgn
 87 -rwxrwxr-x
                    l ritchie users
                                               44032 Feb
                                                              16:16 fb1824.dgn
 75 -rw-rw-r--
                                                            9
                    l ritchie
                                 users
                                               37888 Feb
104 -rwxrwxr-x
                                                            9
                                                              16:22 fb1826.dgn
                    l ritchie
                                 users
                                               52736 Feb
                                                            9 16:23 fb1831.dgn
9 16:25 fb1834.dgn
 91 -rwxrwxr-x
                    l ritchie users
                                               46080 Feb
 65 -rwxrwxr-x
                    l ritchie users
                                               32768 Feb
                                                              16:26 fb1837.dgn
 94 -rwxrwxr-x
                    l ritchie users
                                               47616 Feb
62976 Feb
124 -rwxrwxr-x
                                                            7 14:24 fb184.dgn
                    l ritchie users
148 -rwxrwxr-x
                                                            7 14:26 fb187.dgn
                    l ritchie users
                                               74240 Feb
 96 -rw-rw-r--
                                                            7
                                                              14:27 fb189.dgn
                    1 ritchie
                                users
                                              48640 Feb 10 12:47 fb190.dgn
48640 Feb 9 16:26 fb1901.dgn
 96 -rwxrwxr-x
                    l ritchie users
110 -rwxrwxr-x
                    l ritchie users
                                              55808 Feb
                                                            9 16:28 fb1902.dgn
```

```
lll -rwxrwxr-x
                    l ritchie users
                                           56320 Feb
                                                       9 16:31 fb1903.dgn
 386 -rw-rw-r--
                    l ritchie
                               users
                                          195584 Feb
                                                       9 16:34 fb1906.dgn
  76 -rwxrwxr-x
                    l ritchie
                               users
                                           38400 Feb
                                                         16:35 fb1907.dgn
  87 -rw-rw-r--
                    l ritchie
                                           44032 Feb
                               users
                                                       9 16:41 fb1908.dgn
 103 -rwxrwxr-x
                    l ritchie
                               users
                                           52224 Feb 10 12:48 fb191-1.dgn
 102 -rwxrwxr-x
                    l ritchie
                               users
                                           51712 Feb
                                                      10 12:48 fb191-2.dgn
 106 -rwxrwxr-x
                    l ritchie
                               users
                                           53760 Feb
                                                       9
                                                         16:57 fb1911.dgn
  78 -rwxrwxr-x
                   l ritchie
                                           39424 Feb
                               users
                                                       9
                                                         16:59 fb1912.dgn
     -rwxrwxr-x
                   l ritchie
                               users
                                           37888 Feb
                                                       9
                                                         17:00 fb1915.dgn
  83 -rwxrwxr-x
                   l ritchie
                                           41984 Feb
                               users
                                                       9
                                                        17:06 fb1916.dgn
  93 -rwxrwxr-x
                   l ritchie
                               users
                                           47104 Feb
                                                        17:07 fb1917.dgn
  78 -rwxrwxr-x
                    l ritchie
                               users
                                           39424 Feb
                                                       9
                                                        17:08 fb1920.dgn
  75 -rwxrwxr-x
                   l ritchie
                                           37888 Feb
                               users
                                                       9 17:09 fb1922.dgn
  79 -rw-rw-r--
                   l ritchie
                                           39936 Feb
                                                       9 17:09 fb1923.dgn
                               users
 146 -rwxrwxr-x
                   l ritchie
                               users
                                           73216 Feb
                                                         14:36 fb193.dgn
  82 -rwxrwxr-x
                   l ritchie
                               users
                                           41472 Feb
                                                         17:11 fb1931.dgn
17:32 fb1934.dgn
 115 -rw-rw-r--
                   l ritchie
                                           58368 Feb
                               users
    -rwxrwxr-x
                   l ritchie
                               users
                                           38400 Feb
                                                         17:36 fb1935.dgn
  57 -rwxrwxr-x
                   l ritchie
                               users
                                           28672 Feb
                                                        17:38 fb1938.dgn
  48 -rwxrwxr-x
                   l ritchie
                               users
                                           24064 Feb
                                                        17:39 fb1946.dgn
  79 -rw-rw-r--
                   l ritchie
                                           39936 Feb
                               users
                                                       9 17:41 fb1949.dgn
 119 -rwxrwxr-x
                   l ritchie
                               users
                                           60416 Feb
                                                       9 17:43 fb1950.dgn
  93 -rwxrwxr-x
                   l ritchie
                                                         17:44 fb1952.dgn
                               users
                                           47104 Feb
  69 -rw-rw-r--
                                                      9 17:45 fb1953.dgn
9 17:46 fb1956.dgn
9 17:48 fb1961.dgn
9 18:17 fb1962.dgn
                   l ritchie
                               users
                                           34816 Feb
  67 -rwxrwxr-x
                   l ritchie
                                           33792 Feb
                               users
 80 -rwxrwxr-x
                   I ritchie
                              users
                                           40448 Feb
309 -rw-rw-r--
                   l ritchie
                              users
                                          156160 Feb
308 -rw-rw-r--
                   l ritchie
                              users
                                          155648 Feb
                                                       9 18:17 fb1968.dgn
 72 -rw-rw-r--
                   l ritchie
                              users
                                           36352 Feb
                                                       9 18:21 fb1970.dgn
202 -rwxrwxr-x
                                          101888 Feb
                   l ritchie
                              users
                                                      7 14:01 fb20-1.dgn
224 -rwxrwxr-x
                   l ritchie
                                                      7 14:08 fb20-2.dgn
                              users
                                          113152 Feb
 97 -rwxrwxr-x
                   l ritchie
                                           49152 Feb
                                                      7 14:08 fb20-3.dgn
7 14:09 fb20-b.dgn
                              users
165 -rwxrwxr-x
                   l ritchie
                                          82944 Feb
                              users
191 -rwxrwxr-x
                   l ritchie
                                          96256 Feb
                              users
                                                      7 14:38 fb200-1.dgn
 89 -rwxrwxr-x
                   l ritchie
                                                      7 14:38 fb200-m.dgn
                              users
                                           45056 Feb
207 -rwxrwxr-x
                   l ritchie
                              users
                                                      7 14:46 fb201-1.dgn
                                         104448 Feb
147 -rwxrwxr-x
                   l ritchie
                              users
                                          73728 Feb
                                                      7 14:48 fb201-2.dgn
 81 -rwxrwxr-x
                   l ritchie
                              users
                                          40960 Feb
                                                      7 14:49 fb201-a.dgn
184 -rwxrwxr-x
                   l ritchie
                                          92672 Feb
                              users
                                                      7 14:42 fb201-b.dgn
336 -rwxrwxr-x
                   l ritchie
                                                        14:53 fb202.dgn
                              users
                                         169984 Feb
                                                      7
126 -rwxrwxr-x
                   l ritchie
                              users
                                          64000 Feb
                                                        14:56 fb203-1.dgn
 96 -rwxrwxr-x
                  1 ritchie users
                                                      7 14:57 fb203-2.dgn
7 15:01 fb203-a.dgn
                                          48640 Feb
169 -rwxrwxr-x
                  l ritchie users
                                          84992 Feb
 83 -rwxrwxr-x
                  1 ritchie users
                                          41984 Feb
                                                      7 14:54 fb203-b.dgn
157 -rwxrwxr-x
                  l ritchie
                              users
                                          78848 Feb
                                                      7 15:03 fb204.dgn
279 -rwxrwxr-x
                  l ritchie
                              users
                                         140800 Feb
                                                      7 15:07 fb205.dgn
 89 -rwxrwxr-x
                  l ritchie
                                          45056 Feb
47616 Feb
                              users
                                                      7 15:12 fb206-1.dgn
 94 -rwxrwxr-x
                  l ritchie users
                                                      7 15:13 fb206-2.dgn
 47
   -rwxrwxr-x
                  l ritchie
                                          23552 Feb
                                                        15:14 fb206-a.dgn
15:12 fb206-b.dgn
                              users
                                                      7
 74 -rwxrwxr-x
                  l ritchie users
                                          37376 Feb
                                                      7
100 -rwxrwxr-x
                  l ritchie users
                                          50688 Feb
                                                        15:16 fb208-1.dgn
 97 -rwxrwxr-x
                  1 ritchie
                             users
                                          49152 Feb
                                                      7 15:17 fb208-2.dgn
 65 -rwxrwxr-x
                  l ritchie
                              users
                                          32768 Feb
                                                      7 15:15 fb208-b.dgn
136 -rwxrwxr-x
                  l ritchie
                              users
                                          69120 Feb
                                                      7 15:39 fb210-1.dgn
109 -rwxrwxr-x
                  l ritchie
                              users
                                          55296 Feb
                                                       15:40 fb210-2.dgn
 82 -rwxrwxr-x
                  l ritchie users
                                          41472 Feb
                                                        15:28 fb210-b.dgn
112 -rwxrwxr-x
                  l ritchie
                             users
                                          56832 Feb
                                                      9
                                                        18:24 fb2101.dgn
204 -rwxrwxr-x
                  l ritchie
                             users
                                         102912 Feb
                                                        18:25 fb2102.dgn
116 -rwxrwxr-x
                  l ritchie
                             users
                                          58880 Feb
                                                       18:30 fb2105.dgn
116 -rwxrwxr-x
                  l ritchie
                                          58880 Feb
                              users
                                                      7 15:42 fb211-1.dgn
 93 -rwxrwxr-x
                  l ritchie
                              users
                                          47104 Feb
                                                      7 15:43 fb211-2.dgn
 66 -rwxrwxr-x
                  l ritchie
                             users
                                          33280 Feb
                                                       15:44 fb211-a.dgn
                                                      7
92 -rwxrwxr-x
                  l ritchie
                                          46592 Feb
                              users
                                                        15:41 fb211-b.dgn
113 -rwxrwxr-x
                  l ritchie
                                          57344 Feb
                              users
                                                      9
                                                       18:32 fb2111.dgn
 77 -rw-rw-r--
                  l ritchie
                              users
                                          38912 Feb
                                                     9 18:34 fb2113.dgn
471 -rw-rw-r--
                  l ritchie
                              users
                                         238592 Feb
                                                     9 18:34 fb2115.dgn
```

```
51 -rw-rw-r--
                    l ritchie users
                                             25600 Feb
                                                         9 18:35 fb2117.dgn
  82 -rw-rw-r--
                    l ritchie
                               users
                                                         9 18:37 fb2118.dgn
                                             41472 Feb
  101 -rwxrwxr-x
                    l ritchie
                                users
                                             51200 Feb
                                                         7 15:44 fb212-1.dgn
  92 -rwxrwxr-x
                    l ritchie users
                                             46592 Feb
                                                         7 15:47 fb212-2.dgn
 124 -rwxrwxr-x
                    l ritchie users
                                             62976 Feb
                                                         7 15:46 fb212-b.dgn
  79 -rw-rw-r--
                    l ritchie users
                                             39936 Feb 13 18:16 fb2120.dgn
 108 -rwxrwxr-x
                    1 ritchie users
                                             54784 Feb
                                                           15:52 fb213-1.dgn
 117 -rwxrwxr-x
                    l ritchie users
                                             59392 Feb
                                                         7 16:24 fb213-2.dgn
  99 -rwxrwxr-x
                    l ritchie users
                                             50176 Feb
                                                         7 15:51 fb213-b.dgn
 152 -rwxrwxr-x
                    l ritchie users
                                                         7 16:27 fb214.dgn
                                             76288 Feb
 137 -rwxrwxr-x
                    l ritchie
                                users
                                             69632 Feb
                                                         7 16:27 fb215-1.dgn
  64 -rwxrwxr-x
                                            32256 Feb 7 16:29 fb215-2.dg
76800 Feb 10 15:16 fb216.dgn
90112 Feb 7 16:31 fb219-1.dg
                    l ritchie
                                users
                                                         7 16:29 fb215-2.dgn
 153 -rwxrwxr-x
                    l ritchie
                                users
 179 -rwxrwxr-x
                    l ritchie
                                users
                                                         7 16:31 fb219-1.dgn
 152 -rwxrwxr-x
                    l ritchie
                                            76288 Feb
                                users
                                                         7 16:32 fb219-2.dgn
 119 -rwxrwxr-x
                    l ritchie users
                                                         7 16:31 fb219-b.dgn
                                            60416 Feb
 218 -rw-rw-r--
                    l ritchie
                                                       10 15:18 fb220.dgn
7 16:35 fb221.dgn
7 16:38 fb222.dgn
                                            110080 Feb
                                users
  72 -rwxrwxr-x
                    l ritchie
                                users
                                            36352 Feb
  67 -rwxrwxr-x
                    l ritchie
                                users
                                            33792 Feb
 130 -rwxrwxr-x
                    l ritchie
                                users
                                            66048 Feb
                                                         7 16:39 fb226.dgn
  94 -rwxrwxr-x
                    l ritchie
                                users
                                            47616 Feb
                                                       10 15:19 fb231.dgn
  68 -rwxrwxr-x
                    l ritchie
                                            34304 Feb
40960 Feb
                               users
                                                        7 16:39 fb235.dgn
  81 -rwxrwxr-x
                    l ritchie
                               users
                                                        14 13:13 fb238.dgn
  75 -rwxrwxr-x
                    l ritchie
                                                        9 18:48 fb2393.dgn
7 16:40 fb240-b.dgn
                                users
                                            37888 Feb
 114 -rwxrwxr-x
                    l ritchie users
                                            57856 Feb
 352 -rwxrwxr-x
                    l ritchie users
                                                        7 16:46 fb240.dgn
9 18:56 fb2436.dgn
                                           178176 Feb
  66 -rwxrwxr-x
                    l ritchie
                               users
                                            33280 Feb
 114 -rwxrwxr-x
                    l ritchie
                                users
                                            57856 Feb
                                                        7 16:49 fb246.dgn
218 -rwxrwxr-x
                   l ritchie
                                users
                                           110080 Feb
                                                        7 17:01 fb247-1.dgn
223 -rwxrwxr-x
                   l ritchie
                                           112640 Feb
132608 Feb
                                users
                                                        7 17:03 fb247-2.dgn
262 -rwxrwxr-x
                   l ritchie users
                                                        7 17:04 fb247-3.dgn
146 -rwxrwxr-x
                                                        7 17:12 fb247-b.dgn
7 17:05 fb247-p.dgn
9 18:58 fb2470.dgn
9 18:59 fb2473.dgn
                   l ritchie users
                                            73216 Feb
 72 -rwxrwxr-x
                   l ritchie users
                                            36352 Feb
129 -rwxrwxr-x
                   l ritchie users
                                            65536 Feb
28160 Feb
 56 -rw-rw-r--
                   l ritchie
                               users
178 -rw-rw-r--
                   l ritchie
                               users
                                            89600 Feb
                                                        9 19:01 fb2476.dgn
 58 -rw-rw-r--
                   l ritchie
                               users
                                            29184 Feb
                                                        9 19:04 fb2477.dgn
147 -rwxrwxr-x
                   l ritchie users
                                           73728 Feb
102400 Feb
                                                        7 17:12 fb256.dgn
203 -rwxrwxr-x
                   l ritchie users
                                                        7 17:14 fb257-1.dgn
121 -rwxrwxr-x
                   l ritchie users
                                            61440 Feb
                                                        7 17:13 fb257-b.dgn
 87 -rwxrwxr-x
                   l ritchie users
                                            44032 Feb
                                                        7 17:18 fb258-1.dgn
 77 -rwxrwxr-x
                   l ritchie users
                                            38912 Feb
                                                        7 17:21 fb258-a.dgn
7 17:19 fb258-b.dgn
 76 -rwxrwxr-x
                   l ritchie users
                                            38400 Feb
                   l ritchie users
l ritchie users
 52 -rwxrwxr-x
                                            26112 Feb
                                                        7 17:22 fb259.dgn
 81 -rwxrwxr-x
                                           40960 Feb 13 18:52 fb2590.dgn
73216 Feb 9 19:48 fb2591.dgn
82432 Feb 14 13:14 fb2592.dgn
146 -rwxrwxr-x
                   l ritchie users
                                                        9 19:48 fb2591.dgn
164 -rwxrwxr-x
                   1 ritchie users
                                                      14 13:14 fb2592.dgn
291 -rw-rw-r--
                   l ritchie users
                                          146944 Feb
                                                      10 12:52 fb2593.dgn
366 -rwxrwxr-x
                   l ritchie users
                                          185344 Feb 10 12:53 fb2594.dgn
105 -rwxrwxr-x
                   l ritchie users
                                                        7 17:28 fb268-1.dgn
                                           53248 Feb
 79 -rwxrwxr-x
                  l ritchie users
l ritchie users
                                           39936 Feb
                                                        7 17:25 fb268-2.dgn
148 -rwxrwxr-x
                                                        7 17:27 fb268-a.dgn
                                           74240 Feb
103 -rwxrwxr-x
                   1 ritchie users
                                           52224 Feb
                                                        7 17:23 fb268-b.dgn
204 -rwxrwxr-x
                   l ritchie users
                                          102912 Feb
                                                        7 17:30 fb269-1.dgn
187 -rwxrwxr-x
                   l ritchie users
                                           94208 Feb
                                                          17:31 fb269-2.dgn
 59 -rwxrwxr-x
                   l ritchie users
                                           29696 Feb
                                                        7 17:32 fb269-a.dgn
168 -rwxrwxr-x
                   l ritchie users
                                                       7 17:29 fb269-b.dgn
                                           84480 Feb
143 -rwxrwxr-x
                   l ritchie users
                                                       7 17:33 fb270-1.dgn
                                           71680 Feb
152 -rwxrwxr-x
                   l ritchie
                                           76288 Feb
                              users
                                                       7 17:34 fb270-2.dgn
68 -rwxrwxr-x
                   l ritchie users
                                           34304 Feb
                                                       7 17:37 fb270-a.dgn
109 -rwxrwxr-x
                  l ritchie users
                                           55296 Feb 7 17:32 fb270-b.dgr
24576 Feb 10 12:54 fb2903.dgn
                                                       7 17:32 fb270-b.dgn
49 -rwxrwxr-x
                  l ritchie users
50 -rwxrwxr-x
                  l ritchie users
                                           25088 Feb
                                                      10 12:56 fb2904.dgn
49 -rwxrwxr-x
                  l ritchie users
                                                      10 12:57 fb2905.dgn
                                           24576 Feb
67 -rwxrwxr-x
                  l ritchie
                              users
                                           33792 Feb 13 19:04 fb2907.dgn
119 -rwxrwxr-x
                  l ritchie
                                           60416 Feb
                              users
                                                       7 17:38 fb291.dgn
```

```
116 -rwxrwxr-x
                     l ritchie users
                                             58880 Feb
                                                        7 17:39 fb292.dgn
  59 -rw-rw-r--
                     l ritchie
                                             29696 Feb 10 12:58 fb2990.dgn
                                users
  68 -rw-rw-r--
                                            34304 Feb 10 12:59 fb2991.dgn
38912 Feb 7 17:57 fb303.dgn
125440 Feb 7 18:00 fb305-1.dgi
                     l ritchie
                                 users
  77 -rwxrwxr-x
                    l ritchie users
 248 -rwxrwxr-x
                     l ritchie users
                                                          7 18:00 fb305-1.dgn
7 18:05 fb305-2.dgn
 257 -rwxrwxr-x
                                            130048 Feb
                    l ritchie users
 235 -rwxrwxr-x
                    l ritchie users
                                            118784 Feb
                                                          7 18:06 fb305-3.dgn
  86 -rwxrwxr-x
                    l ritchie users
                                             43520 Feb 13 12:21 fb3065.dgn
 129 -rwxrwxr-x
                    l ritchie
                                users
                                             65536 Feb 10 13:01 fb3066.dgn
  49 -rwxrwxr-x
                    l ritchie
                                             24576 Feb 10 13:03 fb3067.dgn
44544 Feb 10 13:04 fb3069.dgn
                                users
  88 -rwxrwxr-x
                    l ritchie
                                users
 160 -rwxrwxr-x
                    l ritchie users
                                             80384 Feb
                                                         7
                                                           18:17 fb307-1.dgn
 164 -rwxrwxr-x
                    l ritchie users
                                             82432 Feb
                                                         7
                                                            18:24 fb307-2.dgn
 100 -rwxrwxr-x
                    l ritchie users
                                             50688 Feb 7 18:26 fb307-c.dgn
42496 Feb 10 13:07 fb3070.dgn
  84 -rwxrwxr-x
                    l ritchie users
  49 -rwxrwxr-x
                    l ritchie users
                                             24576 Feb 10 13:08 fb3074.dgn
  49 -rwxrwxr-x
                    l ritchie users
                                             24576 Feb 10 13:10 fb3075.dgn
  60 -rwxrwxr-x
                                             30208 Feb 10 13:12 fb3086.dgn
                    l ritchie
                                users
  56 -rwxrwxr-x
                    l ritchie
                                             28160 Feb 10 13:13 fb3087.dgn
                                users
 264 -rwxrwxr-x
                    l ritchie
                                users
                                                         7 18:32 fb309-1.dgn
                                            133632 Feb
 204 -rwxrwxr-x
                                                         7 18:34 fb309-2.dgn
7 18:34 fb309-m.dgn
7 18:41 fb312-1.dgn
                    l ritchie
                               users
                                            102912 Feb
 152 -rwxrwxr-x
                    l ritchie
                               users
                                             76288 Feb
 133 -rwxrwxr-x
                    l ritchie
                                             67584 Feb
                               users
 113 -rwxrwxr-x
                    l ritchie
                               users
                                             57344 Feb
                                                         7 18:56 fb312-2.dgn
  85 -rwxrwxr-x
                    l ritchie
                                users
                                             43008 Feb
                                                         7 18:35 fb312-b.dgn
  49 -rwxrwxr-x
                    l ritchie
                                users
                                             24576 Feb 10 13:14 fb3122.dgn
  83 -rw-rw-r--
                    l ritchie
                                            41984 Feb 10 13:16 fb3126.dgn
                                users
  53 -rwxrwxr-x
                    l ritchie
                                            26624 Feb 10 13:18 fb3128.dgn
                                users
  58 -rwxrwxr-x
                    l ritchie
                                                         7 18:58 fb313.dgn
                                users
                                             29184 Feb
  96 -rwxrwxr-x
                    l ritchie
                                users
                                             48640 Feb
                                                        10 13:19 fb3136-ĭ.dgn
  87 -rwxrwxr-x
                    l ritchie
                                users
                                             44032 Feb
                                                        10 13:19 fb3136-2.dgn
  56 -rwxrwxr-x
                    l ritchie
                                            28160 Feb
                                                        10 13:19 fb3136-b.dgn
10 13:25 fb3137.dgn
                                users
  99 -rwxrwxr-x
                    1 ritchie
                               users
                                            50176 Feb
152 -rwxrwxr-x
                    l ritchie
                                users
                                                       10 13:27 fb3138.dgn
                                            76288 Feb
142 -rwxrwxr-x
                    l ritchie
                                users
                                            71168 Feb
                                                         7 19:03 fb314-1.dgn
111 -rwxrwxr-x
                   l ritchie
                                            56320 Feb
                                users
                                                         7 19:04 fb314-2.dgn
 95 -rwxrwxr-x
                   l ritchie
                               users
                                                         7 19:01 fb314-b.dgn
                                            48128 Feb
 64 -rw-rw-r--
                                                       10 13:39 fb3140.dgn
10 13:46 fb3145.dgn
7 19:21 fb315-1.dgn
7 19:22 fb315-2.dgn
                   l ritchie
                               users
                                            32256 Feb
120 -rw-rw-r--
                   l ritchie
                                            60928 Feb
                               users
174 -rwxrwxr-x
                   l ritchie
                                            87552 Feb
                               users
160 -rwxrwxr-x
                   l ritchie
                               users
                                            80384 Feb
 93 -rwxrwxr-x
                   1 ritchie
                               users
                                            47104 Feb
                                                        7 19:10 fb315-b.dgn
149 -rwxrwxr-x
                   l ritchie
                               users
                                            74752 Feb
                                                       10 13:50 fb3151-1.dgn
143 -rwxrwxr-x
                   l ritchie
                               users
                                            71680 Feb
                                                       10 14:01 fb3151-2.dgn
 59 -rw-rw-r--
                   1 ritchie
                               users
                                            29696 Feb
                                                       10 14:15 fb3153.dgn
134 -rwxrwxr-x
                   l ritchie
                               users
                                            68096 Feb
                                                        7
                                                          19:24 fb316-1.dgn
120 -rwxrwxr-x
                   l ritchie users
                                                       7 19:29 fb316-2.dgn
7 19:23 fb316-b.dgn
10 14:17 fb3165.dgn
                                            60928 Feb
 90 -rwxrwxr-x
                   l ritchie users
                                            45568 Feb
115 -rwxrwxr-x
                   l ritchie users
                                            58368 Feb
169 -rwxrwxr-x
                   1 ritchie
                                            84992 Feb
                               users
                                                        7 19:33 fb317-1.dgn
 60 -rwxrwxr-x
                   l ritchie
                               users
                                            30208 Feb
                                                        7 19:33 fb317-b.dgn
 49 -rwxrwxr-x
                   l ritchie
                                            24576 Feb
98304 Feb
30208 Feb
                               users
                                                       10 14:18 fb3170.dgn
195 -rwxrwxr-x
                   l ritchie users
                                                        7 19:35 fb318-1.dgn
 60 -rwxrwxr-x
                                                        7 19:35 fb318-b.dgn
7 19:38 fb319-1.dgn
7 19:37 fb319-b.dgn
                   l ritchie
                               users
 83 -rwxrwxr-x
                   l ritchie
                                            41984 Feb
                              users
 63 -rwxrwxr-x
                   l ritchie users
                                            31744 Feb
163 -rwxrwxr-x
                   l ritchie
                               users
                                                        7 19:42 fb320-1.dgn
                                            81920 Feb
 56 -rwxrwxr-x
                   l ritchie
                               users
                                            28160 Feb
                                                        7 19:43 fb320-a.dgn
 60 -rwxrwxr-x
                   l ritchie
                               users
                                            30208 Feb
                                                        7 19:43 fb320-b.dgn
128 -rwxrwxr-x
                   l ritchie users
                                            65024 Feb
23040 Feb
                                                        7 19:47 fb321-1.dgn
 46 -rwxrwxr-x
                   l ritchie users
                                                        7
                                                          19:48 fb321-b.dgn
175 -rwxrwxr-x
                   l ritchie users
                                                        7 19:49 fb322-1.dgn
7 19:49 fb322-2.dgn
                                            88064 Feb
121 -rwxrwxr-x
                   l ritchie users
                                            61440 Feb
101 -rwxrwxr-x
                   l ritchie
                               users
                                            51200 Feb
                                                        7 19:51 fb322-b.dgn
118 -rw-rw-r--
                   l ritchie
                                            59904 Feb
                               users
                                                        8 12:07 fb323.dgn
64 -rwxrwxr-x
                  l ritchie users
                                            32256 Feb 10 14:18 fb3230.dgn
```

```
66 -rw-rw-rw-
                    l ritchie users
                                            33280 Feb 10 14:21 fb3230a.dgn
  262 -rw-rw-r--
                    l ritchie
                               users
                                           132608 Feb 10 14:26 fb3231.dgn
  101 -rw-rw-r--
                    l ritchie
                                users
                                            51200 Feb 10 14:47 fb3232.dgn
  69 -rwxrwxr-x
                                            34816 Feb 10 14:47 fb3234.dgn
44032 Feb 10 14:48 fb3235.dgn
                    l ritchie
                                users
  87 -rwxrwxr-x
                    l ritchie users
  109 -rwxrwxr-x
                                            55296 Feb 10 14:49 fb3237.dgn
                    l ritchie users
  303 -rwxrwxr-x
                    l ritchie users
                                           153088 Feb
                                                        8 12:19 fb324.dgn
 169 -rwxrwxr-x
                    l ritchie users
                                            84992 Feb
                                                        8 12:20 fb325-1.dgn
  80 -rwxrwxr-x
                    l ritchie users
                                            40448 Feb
                                                        8 12:20 fb325-b.dgn
 159 -rwxrwxr-x
                    l ritchie
                               users
                                            79872 Feb
                                                        8 12:21 fb326-1.dgn
  54 -rwxrwxr-x
                    l ritchie
                                users
                                            27136 Feb
                                                        8 12:22 fb326-b.dgn
  90 -rwxrwxr-x
                    l ritchie
                                            45568 Feb
                                users
                                                        8 12:23 fb328.dgn
 148 -rwxrwxr-x
                    l ritchie
                               users
                                            74240 Feb
38400 Feb
                                                        8 12:24 fb329-1.dgn
  76 -rwxrwxr-x
                    l ritchie
                               users
                                                        8 12:28 fb329-b.dgn
8 12:31 fb330.dgn
  62 -rw-rw-r--
                    l ritchie users
                                            31232 Feb
 491 -rwxrwxr-x
                    l ritchie users
                                           248832 Feb
                                                        8 12:38 fb331-1.dgn
  74 -rwxrwxr-x
                    l ritchie users
                                                        8 12:38 fb331-2.dgn
                                            37376 Feb
 109 -rwxrwxr-x
                    l ritchie
                                users
                                                        8 12:40 fb332.dgn
                                            55296 Feb
  91 -rwxrwxr-x
                    l ritchie
                                users
                                            46080 Feb
                                                        8 13:18 fb334-1.dgn
  66 -rwxrwxr-x
                    l ritchie
                                users
                                            33280 Feb
                                                        8 13:19 fb334-2.dgn
  66 -rwxrwxr-x
                    l ritchie users
                                            33280 Feb 15 16:40 fb334-b.dgn
64000 Feb 8 13:20 fb335.dgn
39424 Feb 8 13:20 fb336.dgn
 126 -rwxrwxr-x
                    l ritchie users
  78 -rwxrwxr-x
                   l ritchie users
                                                        8 13:20 fb336.dgn
 110 -rwxrwxr-x
                   l ritchie users
                                            55808 Feb
                                                        8 13:22 fb337-1.dgn
8 13:22 fb337-2.dgn
8 13:25 fb340.dgn
  69 -rwxrwxr-x
                    l ritchie users
                                            34816 Feb
  84 -rwxrwxr-x
                    l ritchie users
                                            42496 Feb
  49 -rwxrwxr-x
                    l ritchie
                               users
                                            24576 Feb
                                                        8 13:27 fb342.dgn
  51 -rwxrwxr-x
                    l ritchie
                               users
                                            25600 Feb
                                                        8 13:28 fb345.dgn
  51 -rwxrwxr-x
                   l ritchie
                               users
                                            25600 Feb
                                                        8 13:30 fb346.dgn
  68 -rwxrwxr-x
                   l ritchie
                               users
                                            34304 Feb
25600 Feb
                                                        8 13:32 fb347.dgn
  51 -rwxrwxr-x
                   l ritchie users
                                                        8 13:33 fb348.dgn
  50 -rwxrwxr-x
                   l ritchie users
                                                       8 13:34 fb349.dgn
8 13:35 fb352.dgn
                                           25088 Feb
  57 -rwxrwxr-x
                   l ritchie users
                                           28672 Feb
 121 -rwxrwxr-x
                   l ritchie users
                                                       8 13:37 fb353.dgn
8 13:39 fb354.dgn
                                           61440 Feb
84992 Feb
 169 -rwxrwxr-x
                   l ritchie users
                   l ritchie users
l ritchie users
 49 -rwxrwxr-x
                                          24576 Feb
189440 Feb
200192 Feb
143360 Feb
45056 Feb
                                                       8 13:40 fb355.dgn
374 -rwxrwxr-x
                                                       8 13:41 fb357-1.dgn
395 -rwxrwxr-x l ritchie users
                                                       8 13:44 fb357-2.dgn
284 -rwxrwxr-x 1 ritchie users
                                                       8 13:42 fb357-1.dgn
 89 -rwxrwxr-x
                  l ritchie users
                                                       8 13:45 fb357-p.dgn
273 -rwxrwxr-x
                   l ritchie users
                                          137728 Feb
                                                       8 13:44 fb357-u.dgn
 77 -rwxrwxr-x
                   l ritchie users
                                           38912 Feb
                                                       8 13:46 fb358-2.dgn
 92 -rwxrwxr-x
                   l ritchie
                              users
                                                       8 13:45 fb358-b.dgn
                                           46592 Feb
 67 -rwxrwxr-x l ritchie
                                           33792 Feb
                              users
                                                       8 13:46 fb358.dgn
 66 -rwxrwxr-x 1 ritchie users
                                           33280 Feb
                                                       8 13:50 fb359.dgn
 75 -rwxrwxr-x
                 l ritchie users
                                           37888 Feb
29184 Feb
55296 Feb
                                                       8 13:48 fb359a.dgn
 58 -rwxrwxr-x
                 l ritchie users
                                                       8 13:50 fb360.dgn
109 -rwxrwxr-x
                   l ritchie users
                                                       8 13:53 fb361.dgn
8 13:54 fb362-1.dgn
184 -rwxrwxr-x
                   l ritchie users
                                           92672 Feb
169 -rwxrwxr-x
                   l ritchie users
                                                       8 14:00 fb362-b.dgn
8 14:13 fb365.dgn
                                           84992 Feb
114 -rwxrwxr-x
                  l ritchie users
l ritchie users
                                           57856 Feb
114 -rwxrwxr-x
                                           57856 Feb
                                                       8 14:14 fb366.dgn
173 -rw-rw-r--
                  l ritchie users
                                           87040 Feb
                                                       8 14:17 fb372.dgn
102 -rw-rw-r--
                 l ritchie users
                                           51712 Feb 10 16:46 fb374.dgn
 59 -rwxrwxr-x
                  l ritchie users
                                           29696 Feb
                                                         14:24 fb378.dgn
 76 -rwxrwxr-x
                  l ritchie users
                                           38400 Feb
                                                         14:26 fb379.dgn
                                                       8
 78 -rw-rw-r--
                   l ritchie users
                                           39424 Feb
                                                       8 14:28 fb380.dgn
 61 -rwxrwxr-x
                  l ritchie users
                                           30720 Feb
                                                        14:29 fb381.dgn
                                                       8
 48 -rwxrwxr-x
                  l ritchie
                              users
                                           24064 Feb
                                                         14:30 fb382.dgn
                                                       8
 50 -rwxrwxr-x
                  l ritchie users
                                           25088 Feb
                                                       8 14:32 fb384.dgn
 53 -rwxrwxr-x
                  l ritchie users
                                           26624 Feb
                                                       8
                                                         14:34 fb388.dgn
 38 -rwxrwxr-x
                  l ritchie users
                                           18944 Feb
                                                      17
                                                         13:02 fb390.dgn
380 -rw-rw-r--
                  l ritchie users
                                         192512 Feb
                                                        14:37 fb392.dgn
 51 -rw-rw-r--
                  l ritchie users
                                           25600 Feb
                                                       8 14:38 fb394.dgn
 50 -rwxrwxr-x
                  l ritchie users
                                          25088 Feb
                                                       8 14:39 fb397.dgn
547 -rw-rw-r--
                  l ritchie users
                                         276992 Feb
                                                       8 14:51 fb399.dgn
```

```
64 -rwxrwxr-x
                    l ritchie
                               users
                                            32256 Feb
                                                        8 15:13 fb435-1.dgn
   81 -rwxrwxr-x
                    l ritchie
                               users
                                            40960 Feb
                                                          15:12 fb435-c.dgn
                                                        8
  688 -rw-rw-r--
                    l ritchie
                                           348672 Feb
                               users
                                                         15:24 fb470.dgn
                                                        8
  406 -rw-rw-r--
                    l ritchie
                               users
                                           205312 Feb
                                                        8 15:20 fb470a.dgn
 250 -rw-rw-r--
                    l ritchie
                                           126464 Feb
                               users
                                                        8 15:28 fb498.dgn
 167 -rwxrwxr-x
                                           83968 Feb
39424 Feb
84992 Feb
                    l ritchie
                               users
                                                       8 15:31 fb505-1.dgn
  78 -rwxrwxr-x
                    l ritchie
                               users
                                                       8 15:31 fb505-b.dgn
  169 -rwxrwxr-x
                    l ritchie
                               users
                                                       8
                                                         15:35 fb506-1.dgn
 168 -rwxrwxr-x
                    l ritchie
                                           84480 Feb
                                                         15:35 fb506-2.dgn
15:36 fb506-3.dgn
                               users
                                                       8
 172 -rwxrwxr-x
                    l ritchie
                                           86528 Feb
                               users
                                                       8
  76 -rwxrwxr-x
                    1 ritchie
                               users
                                                       8 15:33 fb506-b.dgn
                                           38400 Feb
 125 -rwxrwxr-x
                    l ritchie
                               users
                                           63488 Feb
                                                       8 15:45 fb507.dgn
 151 -rwxrwxr-x
                    l ritchie
                               users
                                           75776 Feb
                                                       8 15:46 fb508-1.dgn
 175 -rwxrwxr-x
                    l ritchie
                                           88064 Feb
46592 Feb
                               users
                                                       8 15:46 fb508-2.dgn
  92 -rwxrwxr-x
                    l ritchie
                               users
                                                       8 15:45 fb508-b.dgn
 169 -rwxrwxr-x
                    l ritchie
                               users
                                           84992 Feb
                                                       8 15:46 fb509-1.dgn
 169 -rwxrwxr-x
                                           84992 Feb
                   l ritchie
                               users
                                                       8 15:47 fb509-2.dgn
  79 -rwxrwxr-x
                                           39936 Feb
                   l ritchie
                                                       8 15:48 fb509-b.dgn
8 15:50 fb629.dgn
                               users
  91 -rwxrwxr-x
                   l ritchie
                                           46080 Feb
                               users
 110 -rwxrwxr-x
                   l ritchie
                               users
                                           55808 Feb
                                                         15:51 fb630.dgn
                                                       8
  92 -rwxrwxr-x
                   l ritchie
                               users
                                           46592 Feb
                                                         15:52 fb631.dgn
                                                       8
  57 -rwxrwxr-x
                   l ritchie
                               users
                                           28672 Feb
                                                         14:11 fb69.dgn
                                                       7
 116 -rw-rw-r--
                   l ritchie
                                           58880 Feb
                               users
                                                       8 15:54 fb701.dgn
  55 -rw-rw-r--
                   l ritchie
                               users
                                           27648 Feb
                                                       8 15:55 fb704.dgn
  90 -rw-rw-r--
                   l ritchie
                               users
                                           45568 Feb
                                                       8 16:04 fb705.dgn
 154 -rw-rw-r--
                   l ritchie
                               users
                                           77312 Feb
                                                         16:08 fb707.dgn
16:22 fb708.dgn
                                                       8
 202 -rw-rw-r--
                   1 ritchie
                                          101888 Feb
                               users
                                                       8
  64 -rw-rw-r--
                   l ritchie
                                                      8 16:24 fb709.dgn
8 16:25 fb712.dgn
                               users
                                           32256 Feb
  64 -rw-rw-r--
                   1 ritchie
                               users
                                           32256 Feb
 560 -rw-rw-r--
                   l ritchie
                                          283648 Feb
                               users
                                                       8 16:32 fb714.dgn
  63 -rwxrwxr-x
                   l ritchie
                               users
                                           31744 Feb
                                                      8 16:42 fb715.dgn
  48 -rwxrwxr-x
                   l ritchie
                                           24064 Feb
27136 Feb
                               users
                                                      8 16:45 fb716.dgn
  54 -rwxrwxr-x
                   l ritchie
                               users
                                                        16:48 fb718.dgn
                                                      8
 58 -rwxrwxr-x
                   l ritchie
                               users
                                           29184 Feb
                                                        14:49 fb7326.dgn
                                                     10
  49 -rwxrwxr-x
                   l ritchie
                               users
                                           24576 Feb
                                                      8
                                                         16:51 fb737.dgn
 58 -rw-rw-r--
                   l ritchie
                                           29184 Feb
                                                        14:50 fb7386.dgn
14:52 fb7395.dgn
                              users
                                                     10
 56 -rwxrwxr-x
                   l ritchie
                              users
                                           28160 Feb
                                                     10
104 -rw-rw-r--
                   l ritchie
                              users
                                           52736 Feb
                                                        17:01 fb740.dgn
 79 -rw-rw-r--
                   l ritchie
                                           39936 Feb
                              users
                                                      8
                                                        17:06 fb741.dgn
114 -rw-rw-r--
                   l ritchie
                                          57856 Feb
77824 Feb
                              users
                                                      8 17:16 fb745.dgn
155 -rwxrwxr-x
                   l ritchie
                              users
                                                        14:11 fb80.dgn
                                                      7
204 -rwxrwxr-x
                  l ritchie users
                                         102912 Feb
                                                      8
                                                        17:43 fb801-1.dgn
126 -rwxrwxr-x
                   l ritchie users
                                          64000 Feb
                                                        17:43 fb801-2.dgn
                                                      8
 88 -rwxrwxr-x
                   l ritchie users
                                          44544 Feb
                                                      8 17:44 fb802.dgn
163 -rwxrwxr-x
                  l ritchie
                              users
                                                      8 17:45 fb805-1.dgn
                                          81920 Feb
124 -rwxrwxr-x
                  l ritchie
                                          62976 Feb
49152 Feb
                              users
                                                      8 17:48 fb805-2.dgn
 97 -rwxrwxr-x
                  l ritchie
                              users
                                                      8 17:44 fb805-b.dgn
100 -rwxrwxr-x
                  l ritchie users
                                          50688 Feb
42496 Feb
                                                      8 17:51 fb806.dgn
 84 -rwxrwxr-x
                  l ritchie users
                                                      8 17:52 fb807-b.dgn
122 -rwxrwxr-x
                  l ritchie users
                                          61952 Feb
                                                        17:52 fb807.dgn
                                                      8
166 -rwxrwxr-x
                  l ritchie users
                                          83456 Feb
                                                        14:16 fb81.dgn
                                                      7
 58 -rwxrwxr-x
                  l ritchie
                                                      8 17:54 fb812.dgn
                             users
                                          29184 Feb
118 -rwxrwxr-x
                  l ritchie
                              users
                                          59904 Feb
                                                       17:57 fb815.dgn
 58 -rwxrwxr-x
                  l ritchie
                             users
                                          29184 Feb
                                                      7 14:17 fb83.dgn
144 -rwxrwxr-x
                  l ritchie users
                                          72192 Feb
                                                      8 18:00 fb950.dgn
 61 -rwxrwxr-x
                  l ritchie users
                                          30720 Feb
                                                        14:18 fb96.dgn
                                                      7
 63 -rwxrwxr-x
                  l ritchie users
                                          31744 Feb
                                                        14:19 fb98.dgn
166 -rwxrwxr-x
                  l ritchie users
                                          83456 Feb
                                                      7 14:20 fb99.dgn
  2 -rw-rw-rw-
                  l ritchie
                             users
                                           1024 Feb
                                                      7 13:55 ftbel.cdx
203 -rwxrwxrwx
                  l ritchie
                             users
                                         102400 Feb
                                                      7 13:55 ftbel.cel
  2 -rw-rw-rw-
                  l ritchie
                             users
                                            768 Jan 23 14:19 ftbel.tbl
894 -rw-rw-r--
                  l ritchie
                             users
                                         453632 Feb 13 13:11 hosp1m.dgn
744 -rw-rw-r--
                  l ritchie
                                         377344 Feb 13 14:15 hosp2a.dgn
                             users
```

```
25 -rw-rw-r--
                    1 ritchie
                                             12288 Nov 11 13:04 fb131016t.dgn
                                users
469 -- rw-rw-r--
                    l ritchie
                                           237568 Nov 11 12:56 fb1326.dgn
                                users
247 -rw-rw-r--
                                           124928 Nov 11 12:56 fb1348.dgn
                   l ritchie
                                users
199 -rw-rw-r--
                   l ritchie
                                            100352 Nov 11 12:57 fb1478.dgn
                                users
187 -rw-rw-r--
                    l ritchie
                                users
                                             94208 Nov 11 12:57 fb1484.dgn
 89 -rw-rw-r--
                   l ritchie
                                users
                                             45056 Nov 11 12:57 fb1485.dgn
 89 -rw-rw-r--
                   l ritchie
                                users
                                             45056 Nov 11 12:57 fb1487.dgn
646 -rw-rw-r--
                   l ritchie
                               users
                                           327680 Nov 11 12:58 fb2009.dgn
                                           16384 Nov 11 12:58 fb2010.dgn
30720 Nov 11 12:58 fb2015.dgn
475136 Nov 11 12:58 fb2021.dgn
 33 -rw-rw-r--
                   l ritchie
                               users
 61 -rw-rw-r--
                   l ritchie users
937 -rw-rw-r--
                   l ritchie users
179 -rw-rw-r--
                   l ritchie users
                                            90112 Nov 11 12:58 fb2033.dgn
207 -rw-rw-r--
                   l ritchie users
                                           104448 Nov 11 12:58 fb2034.dgn
 73 -rw-rw-r--
                                            36864 Nov 11 12:58 fb2036.dgn
                   l ritchie
                               users
 85 -rw-rw-r--
                   l ritchie
                                            43008 Nov 11 12:58 fb2037.dgn
                               users
 53 -rw-rw-r--
                                           26624 Nov 11 12:58 fb2040.dgn
266240 Nov 11 13:13 fb2041.dgn
                   l ritchie
                               users
525 -rw-rw-r--
                   1 ritchie
                               users
                                           296960 Nov 11 12:58 fb2073.dgn
358400 Nov 11 12:58 fb2089.dgn
586 -rw-rw-r--
                   l ritchie
                               users
707 -rw-rw-r--
                   l ritchie
                               users
143 -rw-rw-r--
                                            71680 Nov 11 12:58 fb2099.dgn
                   l ritchie
                               users
175 -rw-rw-r--
                   l ritchie
                                            88064 Nov 11 12:58 fb2107.dgn
                               users
 73 -rw-rw-r--
                   l ritchie
                               users
                                            36864 Nov 11 12:58 fb2283.dgn
 89 -rw-rw-r--
                   l ritchie
                                            45056 Nov 11 12:58 fb2284.dgn
                               users
101 -rw-rw-r--
                   l ritchie
                               users
                                            51200 Nov 11 12:58 fb2286.dgn
 97 -rw-rw-r--
                                           49152 Nov 11 12:58 fb2418.dgn
163840 Nov 11 12:59 fb2455.dgn
47104 Nov 11 12:59 fb2457.dgn
                   l ritchie
                               users
324 -rw-rw-r--
                   1 ritchie users
 93 -rw-rw-r--
                   l ritchie
                              users
143 -rw-rw-r--
                                            71680 Nov 11 12:59 fb371.dgn
                   l ritchie
                              users
945 -rw-rw-r--
                   l ritchie users
                                           479232 Nov 11 13:00 fb6001.dgn
 85 -rw-rw-r--
                   l ritchie users
                                            43008 Nov 11 13:00 fb6003.dgn
147 -rw-rw-r--
                   l ritchie
                                            73728 Nov 11 13:00 fb611.dgn
                               users
 49 -rw-rw-r--
                   l ritchie
                                            24576 Nov 11 13:00 fb641.dgn
                               users
207 -rw-rw-r--
                   l ritchie
                                           104448 Nov 11 13:00 fb739.dgn
                               users
105 -rw-rw-r--
                   l ritchie
                               users
                                            53248 Nov 11 13:00 fb743.dgn
 37 -rw-rw-r--
                                           18432 Nov 11 13:00 fb758.dgn
32768 Nov 11 13:00 fb788.dgn
                   l ritchie
                               users
 65 -rw-rw-r--
                   l ritchie
                               users
```

SECTION II
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# COMPUTER GENERATED REPORTS

**General:** This section contains the following overall asbestos survey reports and indexes to each building and digital files:

- Master Building List Tab A
- Rank Buildings by Risk Index Tab B
- Rank Individual Areas by Risk Index Tab C
- Samples To-date List Tab D
- Individual Building Report Index Tab E
- MicroStation DGN Files Index Tab F

	SEC	TION	III
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#### RISK ASSESSMENT & COST ESTIMATES

- 1. General: The algorithm presented below is an expansion of the old EPA or Sawyer algorithm used by the State of Virginia for asbestos surveys. Advantages are that it uses well defined criteria that can be amended to reflect field conditions, it keeps exposure or risk numbers in low values (≤227.25) and it can be worked without a calculator. It can be modified and tailored to meet specific needs, if necessary.
- 2. Data Conversion Protocol: D&D analyzed the data base documentation from the two previous asbestos surveys at Fort. Belvoir. The data files from the previous surveys were determined to be incompatible with D&D's existing DbaseIII+ program which included data management of asbestos survey information and the calculation of risk assessments. The D&D program uses a risk assessment algorithm to transfer raw field data into risk assessment values. The program is also designed to determine abatement priorities by comparing the risk assessment values.

Because the file structures of the two data base systems were incompatible, D&D entered the raw data from the previous surveys into the D&D program. Since data from the previous surveys, as well as the D&D survey were entered in the same manner, all algorithm calculations for Risk Index and Cost Estimates are determined consistently for all buildings.

**3. Exposure Factors:** Following is a brief description of each exposure factor and the range and extent of each score value. The subrange scores are also discussed, as well as the calculation of the risk index number. Levels of risk and proposed options for dealing with each asbestos situation are also explained.

The eight exposure factors are: 1) material condition, 2) water damage, 3) exposed surface area, 4) accessibility, 5) activity and movement, 6) air plenum or direct air stream, 7) friability, and 8) asbestos content.

# FACTOR ONE: MATERIAL CONDITION

This factor is comprised of three levels:

A. NO DAMAGE: Material is intact and shows no sign of deterioration.

B. MODERATE DAMAGE - SMALL AREAS: Through visual inspection and physical contact there are indications that ten percent or is breaking up into layers or beginning to fall. There may be small areas where the material is deteriorating. There may be signs of accidental or intentional damage.

# **NUMERICAL VALUE: 2**

C. WIDESPREAD SEVERE DAMAGE: Greater than ten percent of the material is damaged. Large pieces are dislodged and/or debris in the area is evident. Parts of the material may be suspended from the ceilings or may have fallen to the floor. Evidence of severe accidental or intentional damage.

#### **NUMERICAL VALUE: 5**

The score is adjusted up one point or down one point depending on the building's age. If the age of the material and/or building in question is greater than 30-years, the objective variable is increased by one. If the building's age is less than 15-years, it is reduced by one. If the age is between 15-and 30-years, the score does not change.

If the type of material, in particular pipe coverings, is a magnesium or calcium silicate performed pipe having a tendency to deteriorate more rapidly, the score is increased by one; and if the material type is corrugated air cell or a paper product, it is reduced by one. For ceiling plasters or fireproofing, if the material type is more cementitious, the value is reduced by one. If it is a cotton candy Cafco-type blaze shield or sound shield, it is increased by one. For standard acoustical plaster materials, there is no change in the subvariable.

# FACTOR TWO: WATER DAMAGE

This factor is comprised of three levels:

A. NO WATER DAMAGE: No water stains or evidence of the material being disturbed by water. No stains on the floor or walls to indicate past water damage.

#### NUMERICAL VALUE: 0

B. MINOR WATER DAMAGE: Small areas of the material or adjacent floor and/or walls show water stains and ceiling material may be slightly buckled. However, pieces have not fallen from the ceiling and the damage affects ten percent or less of the material.

C. MODERATE TO MAJOR WATER DAMAGE: Water has dislodged some of the material and caused the material to break away, or has become saturated and has the potential to fall, and/or greater than ten percent of the material has been affected. Asbestos fibers have been carried from the asbestos-containing material by water and evaporation has occurred and/or the fibers have been deposited on other surfaces.

# **NUMERICAL VALUE: 2**

If the roof above the material is a sloped or hipped roof, the value is reduced by 0.5 points. If it is a flat, built-up roof the value is increased by 0.5. If the substrate type is metal or concrete, the value is reduced by 0.5.

# FACTOR THREE: EXPOSED SURFACE AREA

This factor is comprised of three levels:

A. MATERIAL IS COMPLETELY COVERED: Not visible without removing non ACM covering or enclosure.

# NUMERICAL VALUE: 0

B. LESS THAN TEN PERCENT OF THE MATERIAL IS EXPOSED: A small portion of the covering or enclosure has been damaged or removed allowing fibers to pass through the barrier

#### NUMERICAL VALUE: 1

C. GREATER THAN TEN PERCENT OF THE MATERIAL IS EXPOSED: More than ten percent of the covering or enclosure has been damaged or removed exposing ACM.

#### **NUMERICAL VALUE: 4**

If a central HVAC system is part of the plenum area, the general determination is increased by one point. If there is no plenum, only an enclosed dead space, it is reduced by one. If there is a semipermanent or permanent enclosure under the fireproofing or acoustical plaster, isolating the mechanical system, the general determination is reduced by 0.5.

# FACTOR FOUR: ACCESSIBILITY

This factor is comprised of three levels:

A. NOT ACCESSIBLE: The building occupants cannot contact the material. For example it is located above a tight suspended ceiling or is concealed by ducts or piping.

# NUMERICAL VALUE: 0

B. RARELY ACCESSIBLE: Building occupants rarely touch the material or cause damage to it. The material is contacted only during abnormal activity such as infrequent maintenance or repair of nearby heating ventilation, lighting or plumbing systems.

#### NUMERICAL VALUE: 1

C. HIGHLY ACCESSIBLE: The building occupants can contact the material during normal activity, at which time they routinely touch and dislodge the material cause damage to it. Material is contacted frequently due to routine maintenance.

# NUMERICAL VALUE: 4

If the ceiling height or material height is greater than nine and one half-feet, the subjective score is reduced by one point. If it is under nine and one half-feet the score is increased by one.

Since the building occupancy and use status tells a great deal about how often the material is going to be accessed, the numerical value can be adjusted by 1.5 or more depending on the type of occupancy. Pipe chases, crawl spaces, attics and mechanical air handling rooms have values reduced by 1.5, whereas major boiler rooms, classrooms, secretarial pools, barracks, office, etc. have values increased by 1.5.

# FACTOR FIVE: <u>ACTIVITY AND MOVEMENT</u>

The factor is comprised of four levels:

A. NO ACTIVITY: This level includes unoccupied spaces such as chases or crawl spaces.

B. LOW ACTIVITY: This level would normally include such areas as administrative offices, libraries, boiler rooms and those classrooms where the population is quiet and non-destructive.

#### NUMERICAL VALUE: 0

C. MODERATE ACTIVITY: This level describes areas such as corridors, classrooms, barracks or other areas where activities exist that could disturb asbestos materials and result in fibers being released from the material into the immediate area.

# NUMERICAL VALUE: 1

D. HIGH ACTIVITY LEVEL: This level includes areas such as gymnasiums and shops where activities exist which are likely to cause damage and release asbestos fibers. If also includes areas such as classrooms or corridors which are subject to disruptive activity or vandalism.

#### **NUMERICAL VALUE: 2**

The next step is to determine whether there is sedentary or non-sedentary movement. If the area is a library or other sedentary work environment, the subjective variable is reduced by 0.5. However, if the area has a great deal of activity, such as in a hallway, a barracks, a maintenance shed, etc., the variable will be increased by 0.5. If the area is subject to sound or mechanical vibration, such as an auditorium, band hall, an air handling or boiler room, the variable is increased by 0.5.

If the area contains no recognizable sound or mechanical vibrations, or if no air handling systems are on the roof, the subjective variable is reduced by 0.5 points.

#### FACTOR SIX: AIR PLENUM OR DIRECT AIR STREAM

This factor is comprised of two levels:

A. NO AIR PLENUM OR DIRECT AIR STREAM PRESENT: The space is completely isolated with no air movement.

B. AIR PLENUM OR DIRECT AIR STREAM PRESENT: Look for dust patterns deposited by an air stream on surfaces next to air supply diffusers. Fan rooms coated with asbestos-containing material may be contributing asbestos fibers to the building air if the circulation system draws air from such a coated room. Look for debris from the asbestos-containing material being deposited on dampers and filters of the air intake.

# **NUMERICAL VALUE: 1**

Look at the velocity of the air flow. If the air flow is recognizable by human feeling, rather than being subtle, the variable is increased by 0.25. If it is non-recognizable, the value is reduced by 0.25. If the air flow is a constant, steady stream the value is reduced by 0.25. If the air flow is an impact air flow, such as through thermostatic action where large gusts of air impact the material from time to time, the value is increased by 0.25.

# FACTOR SEVEN: FRIABILITY

This factor is comprised of four levels:

A. NOT FRIABLE: Material that is hard and crusty. Cannot be damaged by hand. Sharp tools are required to penetrate material.

#### NUMERICAL VALUE: 0

B. LOW FRIABILITY: Material that is difficult yet possible to damage by hand. Material can be indented by forceful impact. If the granular, cementitious asbestoscontaining material is rubbed, it leaves granules on the hand, but no powder.

#### NUMERICAL VALUE: 1

C. MODERATE FRIABILITY: Fairly easy to dislodge and crush or pulverize. Material may be removed in small or large pieces. Material is soft and can easily be indented by hand pressure. The granular, cementitious asbestos-containing material leaves a powder residue on the hands when rubbed.

# **NUMERICAL VALUE: 2**

D. HIGH FRIABILITY: The material is fluffy, spongy, or flaking and may have pieces hanging down. Easily crushed or pulverized by minimal hand pressure. Material may disintegrate or fall apart when touched.

# FACTOR EIGHT: ASBESTOS CONTENT

The entry for asbestos content is taken from the laboratory report. The percentage for all types of asbestos present should be combined for the total asbestos content. The numerical value is assigned based upon the report of analysis, not on appearance of the material. This factor is comprised of three levels:

A. TRACE AMOUNTS TO ONE PERCENT: Lab results of less than one percent are considered to be non-asbestos.

# NUMERICAL VALUE: 0

B. ONE PERCENT TO FIFTY PERCENT: Ceiling and wall coatings most frequently encountered in this category are the granular, cementitious acoustical plasters.

# NUMERICAL VALUE: 2

C. FIFTY PERCENT TO ONE HUNDRED PERCENT: Most frequently, materials containing over 50-percent asbestos are pipe and boiler wrapping, or fibrous, cotton candy-type, sprayed-on insulation.

- 4. Risk Index Calculation: The Risk Index is derived from the Factor Scores by a formula. After entering the chosen Factor Scores for Factors 1 through 8:
  - Add Factors 1 through 6 for SUM
  - Multiply Factor 7 times Factor 8 for PRODUCT
  - Multiply SUM times PRODUCT for Risk Index

This number, called the Risk Index, represents the result of the risk assessment for a sample or for the building as a whole. The values can range from 1 to 227.25. The higher the numerical value, the greater the hazard. Risk Index numbers are used to determine the levels of risk.

FACTOR 1 a
FACTOR 2 b
FACTOR 3 c
FACTOR 4 d
FACTOR 5 e
FACTOR 6+f

SUM (a+b+c+d+e+f)

FACTOR 7 g FACTOR 8 x h

SUM x PRODUCT = RISK INDEX

PRODUCT (gxh)

5. Correlation of Risk Index to Levels of Risk: Compare the Risk Index to the Risk Level number on the EXPOSURE ASSESSMENT KEY to determine whether action is needed. For example, a Risk Index of 75 indicates that the asbestos should be removed. A Risk Index of 10, however, might suggest encapsulation or deferral of action. In this case it is necessary to further analyze the situation, perhaps to consider factors such as length of time that action could be deferred.

#### The Risk Index can be used:

- To determine whether corrective action should be initiated, or can be deferred. With a score of 0 to 19, corrective action can usually be deferred. This is assuming that an Operations and Maintenance program will be implemented and that inadvertent damage to the material will be avoided.
- To set priorities for decision making. The higher the Risk Index, the higher the priority.
- To select a corrective action. The level of risk indicates methods found to be appropriate in most exposure situations. The recommended corrective action is to be considered as a guideline for decision making. Local conditions will have significant influence on corrective action selection.

#### **EXPOSURE ASSESSMENT KEY**

Level of Risk	Risk Index Range
I	61 - 227
П	40 - 60
Ш	20 - 39
IV	1 - 19

# Level of Risk

#### Recommended Corrective Action

Level I

Areas in this level may pose a high exposure potential. Materials are usually in poor condition. However, materials could be in good condition but have a high potential for exposure depending on friability, accessibility, air movement, and vibration. Fireproofing is a material that can exhibit this condition. Corrective actions recommended for items in this level shall be given the highest priority.

Level II

Areas listed in this level have materials that are not in as poor condition as Level I but still pose a relatively high level for exposure. The ultimate corrective action plan should be removal. However, in the interim, proper repair/encapsulation of the material and/or an Operations and Maintenance Program will be necessary.

Level III

These areas pose a moderate exposure potential. Corrective action should be aimed at eliminating the factors causing materials to deteriorate. Minor repairs may be all that are necessary for now. At a minimum, an Operations and Maintenance Program will be necessary to monitor the conditions of these materials. Again, corrective action will likely be removal, but other options may also be stated.

Level IV

These materials have a relatively low exposure potential. Monitoring and minor repair will keep these materials in their present condition. An Operations and Maintenance Program will be required. Removal may be recommended but with other options available.

6. Computation of Building Risk Index: In addition to the Risk Index for individual samples, the database will also compute a Building Risk Index. The Building Risk Index is a composite of the values for all samples in a building. The result is a number similar in value to the Sample Risk Index, used to establish priorities by building.

Calculation of the Building Risk Index begins with the highest Sample Risk Index value for the subject building. It is assigned a value equal to the lowest Risk Index value in the Level of Risk range. Next, the database determines the number of samples which occur in each Level of Risk. That number is multiplied by 4 for Level I samples, 3 for Level II samples, 2 for Level III samples and 1 for Level IV samples. The Building risk is the sum of the assigned value of the highest Sample Risk Index plus the combined values based on the number of samples in each Level of Risk. An example is provided below:

Page No.			• Ya1:			FOR BI	CR-Cro	212 cidolite	ments.			٠
02/02/95 SAMPLE NUMBER	LOCATION	BUILDING MATERIAL	FRIABILITY	DAMAGE	(CH)	(AA)	(CR)	TOTAL ASBESTOS	QUARTITY	RISK INDEX	RECOMMENDATION	COST OF REMOVAL
999 P 791 P 797 P 602 P 1335 P 1338	VII \$11 \$11 P1	EXIBLE CONNECTOR  NYL TILE  RAIGHT PIPE  RAIGHT PIPE  PE JOINT  RAIGHT PIPE	HIGH HODERATE HIGH LOW HIGH	MODERATE MODERATE SEVERE MONE MODERATE MODERATE	50 5 35 40 60 35	0 0 10 0	0 0 0	50 5 45 40 60 35	2 EA 2940 SF 100 LF 18 EA 37 LF	53 52 77 1 93 50	O & M O & M REMOVAL REMOVAL O & M O & M	280 - 440 10290 - 13230 800 - 1200 * 360 - 630 296 - 444
Highe		Risk Index:										
	Highest	Level of	Assi	gned								
	Risk Inde	x Risk	Valu	ıe								
	93	I	61		=	(	61					
		П	40									
		$\mathbf{m}$	20									
	-	IV	1									
No. of	Level of 1	Risk Samples:										
	No. of Samples	Level of Risk	Mul	tiplier	P	rođu	ict					
	2	I	4		=		8					
	3	П	3		=		9					
*	0	$\mathbf{III}$	2		=		0					
	1	IV	1		=		1					
							18					

The total Building Risk Index is multiplied by 1000 for all buildings with a potential immediate hazard (PIH). This is done to artificially inflate the number so that all such buildings will be moved to the top of the priority list.

TOTAL BUILDING RISK INDEX (61+18)

6. Basis of Cost Estimate: The estimate of asbestos removal costs was developed using Means Construction cost manuals as the basis for unit prices for the removal of each material type. Further investigations and consultations were made with local abatement contractors to fine tune the cost factors and arrive at a low and high price.

A cost (per unit of material) was then calculated by combining the material and labor costs with transportation and disposal costs. The unit costs presented represent a "range" to be used as a basis for entertaining bids for abatement of each building as a separate entity. The cost estimate is also based on the following assumptions:

- All work will be accomplished by a private contractor licensed to do asbestos abatement.
- All abatement work within a building will be completed under a single contract and at one time.
- Building spaces which are to be abated are cleared of all furnishings and equipment.

Costs which are not included in the estimate, because they will vary with individual buildings and the way in which contracts are awarded include:

- Relocation of personnel and furnishings from areas to be abated
- Insurance and bonding as required by the contract award.
- Hygiene services, including air monitoring and site inspections.
- Containment zones.

Please note that changes in abatement technology, along with Federal, State and local requirements and guidelines for asbestos abatement can have a significant effect on the final price of a project. The removal of certain non-friable ACMs is not regulated under NESHAP. As a result, the removal cost of some non-friable materials will be significantly less. In addition, complex variables affect the calculation of the duration and containment zone design for any abatement project. It is our recommendation that an abatement project designer be consulted when a project is put out to bid. This will assure a well defined statement of work and accurate cost estimate.

7. Unit Costs for Removal: The unit costs listed below have been entered into the database system and are used to calculate the estimates in the summary reports.

CODE	MATERIAL DESCRIPTION	LOW COST	<b>HIGH COST</b>
AS	ASPHALT ROOF SHINGLE	1.00	2.00 SF
AT	ACOUSTICAL TILE	1.50	1.95 SF
BI	BLOWN-IN INSULATION	1.75	2.85 SF
BJ	BOILER JACKET	5.00	9.00 SF
BU	BUILT-UP ROOF	3.00	5.00 SF
CG	COATING	12.00	18.00 SF
CN	WELDING CURTAIN	1.25	1.75 SF
CP	CORRUGATED PAPER	1.95	2.40 SF
DE	DEBRIS	2.00	3.00 SF
DT	DUCT INSULATION	4.00	5.50 SF
EI	ELECTRICAL INSULATOR	15.00	20.00 EA
FC	FLEXIBLE CONNECTOR	60.00	80.00 EA
FD	FIRE DOOR	50.00	75.00 EA
FL	FLASHING	3.50	7.00 SF
FP	FIXTURE PAPER	5.00	5.50 EA
GA	GASKETS	60.00	80.00 EA
GB	GYPSUM BOARD	2.50	3.00 SF
GM	GLUE/MASTIC	3.50	4.50 SF
П	INCINERATOR INSULATION	7.00	12.00 SF
IN	INSULATION, LOOSE OR BATT	1.75	2.85 SF
IP	INSULATION PANELS	3.00	3.75 SF
IW -	INSULATION WRAP	8.00	12.00 LF
MA	MASTIC	1.50	2.50 SF
PB	PARTICLE/	1.95	2.40 SF
	COMPOSITION BOARD		
PC	PIPE COVERING	4.00	6.50 LF
PD	ASBESTOS PAD	40.00	60.00 EA
PG	PEG BOARD (TRANSITE)	1.95	2.40 SF
PH	PIPE HANGER	15.00	20.00 EA
РJ	PIPE JOINT	15.00	20.00 EA
PL	TEXTURED/SMOOTH PLASTER	6.00	10.00 SF
PM	PATCHING MATERIAL	10.00	12.50 SF
RO	ROPE INSULATION	40.00	60.00 EA
RR	ROLL ROOFING	1.00	2.00 SF

<b>CODE</b>	MATERIAL DESCRIPTION	LOW COST	HIGH COST
SI	SPRAY-ON INSULATION	1.75	2.50 SF
SK	STACK BREECHING/	5.00	9.00 SF
	EXHAUST STACK		
SO	SPRAY-ON PLASTER	3.00	5.00 SF
SP	STRAIGHT PIPE	4.00	7.50 LF
ST	STAIR TREAD	5.00	7.00 EA
TB	TRANSITE BOARD	1.95	2.40 SF
TD	TRANSITE DUCT	3.80	4.50 SF
TK	TANK INSULATION	3.60	4.20 SF
TP	TRANSITE PIPE	8.50	9.20 LF
TR	TAR PAPER	3.50	4.50 SF
TW	TAR WRAP	8.00	10.00 LF
UL	UNDERLAYMENT	3.50	4.50 SF
VB	VINYL BASE	.35	.45 LF
VE	VINYL EXTERIOR	3.20	4.50 SF
VS	VINYL SHEET	3.50	4.50 SF
VT	VINYL TILE	3.50	4.50 SF

TAB	G	

# STANDARD OPERATING PROCEDURES

ASBESTOS TRAINING AND O&M WORK PRACTICES FOR CUSTODIAL AND MAINTENANCE WORKERS

#### STANDING OPERATING PROCEDURES

# ASBESTOS TRAINING AND O&M WORK PRACTICES FOR CUSTODIAL AND MAINTENANCE WORKERS

#### 1. GENERAL:

- a. OSHA and EPA require a worker training program for all employees exposed to asbestos containing material (ACM) fiber levels (either measured or anticipated) at or above specified action levels (0.1 f/cc, 8-hour time-weighted average (TWA) and/or the excursion limit of 1.0 f/cc, 30-minute TWA). The duration and subject matter of the training should be based upon the actual or anticipated work environment.
- b. With proper training, custodial and maintenance staff can successfully deal with ACM in place, and greatly reduce the accidental release of asbestos fibers. Training sessions should provide basic information on how to deal with all types of maintenance activities involving ACM.
- c. This SOP identifies general recommended training and O&M work practices. Supervisors should consult the following regulations to ensure that all aspects of required training incorporated into their asbestos training and O&M work practices program.
- **2. APPLICABLE REGULATIONS:** The following regulations are designed to protect workers. They deal with specific requirements concerning worker protection and procedures used to control ACM.
  - OSHA Construction Industry Standard for Asbestos 29 CFR 1926.1101
  - OSHA General Industry Standard for Asbestos 29 CFR 1920.1001
  - OSHA Respiratory Protection Standard 29 CFR 1910.134
  - EPA Worker Protection Rule 40 CFR 763 Subpart G
  - EPA National Emission Standards for Hazardous Air Pollutants (NESHAP) 40
     CFR 61 Subpart M
  - EPA Asbestos Hazard Emergency Response Act (AHERA) regulations 40 CFR
     763 Subpart E
  - EPA Asbestos Ban and Phaseout Rule 40 CFR 763 Subpart I

# 3. ASBESTOS TRAINING REQUIREMENTS:

- a. Level 1: Awareness Training: All members of the maintenance and custodial staff (including; janitors, custodians, custodian services, volunteers, electricians, heating/air conditioning engineers, plumbers, etc.) who may work in buildings that contain ACMs shall receive Level 1 Awareness Training of at least two-hours, whether or not they are required to work with ACM. Training shall include, but not be limited to:
  - The various uses and forms of asbestos.
  - The health effects associated with exposure to asbestos.
  - Location of the asbestos inspection reports and who they can contact to find out specific information about where the asbestos is located within specific buildings.
  - Recognition of damage, deterioration and delamination of asbestos containing materials.
  - The name and telephone number of the Asbestos Program Manager who should be contacted to report problems or ask additional questions.
  - Availability and location of the Asbestos Management Plan.
- b. Level 2: Special O&M Training: All members of the maintenance or custodial staff who conduct any activities that will result in the disturbance of ACM shall receive at least 16-hours of training. Training shall include, but not be limited to:
  - The two-hour General Awareness Class.
  - Federal, State, and local asbestos regulations.
  - Descriptions of the proper methods of handling ACM., including waste handling and disposal.
  - Information on the use of respiratory protection as contained in the EPA/NIOSH Guide to Respiratory Protection for the Asbestos Abatement Industry.
  - Protective clothing donning, use, and handling.
  - Hands-on exercises for techniques such as glovebag work and HEPA vacuum use and maintenance.
  - Appropriate and proper worker decontamination procedures.
- c. Designated Persons and New Employees: Training must be conducted within 60 days after commencement of employment.

# 4. WORKER PROTECTION AND EQUIPMENT:

- a. Air Quality Levels: OSHA Regulation 29 CFR 1926.1101 sets standards for three levels of airborne asbestos fibers.
  - The Action Level: The action level is defined at 0.1f/cc over a time weighted average (TWA) of 8-hours for more than 30-days per year, then the Contractor shall be required to:
    - Provide a respirator for the employees.
    - Place the employees in a medical surveillance program.
  - The Permissible Exposure Limit (PEL): The PEL is defined at 0.1 f/cc for a TWA of 8-hours. If an employee is exposed, or can reasonable be expected to be exposed, to the PEL, the employer must immediately:
    - Provide a respirator for the employees.
    - Have the employees under a medical surveillance program.
  - The Excursion Limit: The excursion limit is defined at 1.0 f/cc for a TWA of 30-minutes. If an employee is exposed, or can reasonably be expected to be exposed, at or above the excursion limit, then the employee must:
    - Wear a respirator.
    - Be under a medical surveillance program.
- **b.** Medical Surveillance Program: OSHA regulation CFR 29 1926.1101 requires that any person required to wear a respirator or who can reasonably be expected to be exposed to asbestos fibers at the Action Level, PEL or Excursion Limit be covered under a medical surveillance program which includes, but is not limited to the following elements:
  - OSHA Medical History :
    - Documentation of any past exposure to asbestos.
    - Documentation that substantiates other medical considerations affecting the risk for developing any asbestos related diseases, (i.e., smoking).

# Physical Examination:

- Documents a baseline of the persons health, so that a doctor will have something to compare the persons health to in the future.
- Specific information about the employees duties and anticipated exposure levels must be provided for the doctor.
- The examination is conducted yearly.
- The examination shall be provided at no cost to the employee.
- The examination shall be conducted in accordance with OSHA regulations.
- Results of the examination are provided to the employer, who has 30 days to give a copy to the employee.
- The medical records shall be kept on file for 30-years past the termination of the employee.
- **c.** Respirators: OSHA regulations require that any person exposed to either the PEL or the excursion limit, or any person exposed to the action level for more than 30-days must wear a respirator. In addition the employer shall have a written respirator protection program. The following actions must be complied with in accordance with CFR 29 1926.1101:
  - The employee must pass a medical examination.
  - No beards, mustaches, or long sideburns that will interfere with the seal of the mask to the face are permitted.
  - Each employee must be issued, at no cost to themselves, their own respirator.
  - Each time the employee puts on their respirator, they must conduct a positive and negative seal check.
  - Each employee issued a respirator must have a qualitative fit test.
  - Each respirator shall be fitted with HEPA filters.
  - The employee shall wear the respirator whenever they conduct any work that will disturb asbestos.
- **d. Protective Clothing:** Employees handling asbestos shall wear the following personal protective equipment:
  - Tyvek coveralls.
  - Eye protection.
  - Hand and foot protection.
  - Head covering.

#### 5. BASIC O&M PROCEDURES WHERE ACM IS PRESENT.

- a. Basic O&M procedures where ACM is present should be conducted in a manner that continues to protect building occupants as well as protecting the person conducting the cleaning/maintenance from ACM. Basic O&M procedures to minimize an/or contain asbestos fibers may include wet methods, use of mini-enclosures, use of portable power tools equipped with special local ventilation attachments, and avoidance of the following activities:
  - Holes must not be drilled in ACMs.
  - Plants or pictures must not be hung on structures covered with ACMs.
  - Do not sand ACM floor tile.
  - Do not damage ACMs while moving furniture or other objects.
  - Do not install curtains, drapes, or dividers in such a way that they damage ACM.
  - Do not dust floors, ceilings, moldings, or other surfaces in ACM environments with a dry brush or sweep with a dry broom.
  - Do not use an ordinary vacuum to clean up ACM containing debris.
  - Do not remove ceiling tiles below ACM without wearing the proper respirator protection, clearing the area of other people, and observing asbestos removal waste procedures.
  - Do not remove ventilation system filters while dry.
  - Do not shake ventilation system filters.
- b. O&M activities can be divided into three categories with regard to their potential for disturbing ACM:
  - Those which are unlikely to involve any direct disturbance of ACM; for example, cleaning shelves or counter tops with a damp cloth.
  - Those which may cause accidental disturbance of ACM; for example, working on a fixture near a ceiling with surfacing ACM.
  - Those which involve intentional small-scale manipulation or disturbance of ACM; for example, removing a small segment of thermal system insulation ACM to repair a pipe leak.
- c. O&M work practices should be established for each type of ACM that is present in the building as well as for each type and category of maintenance activity performed. Special work practices, such as wet wiping, area isolation, HEPA vacuuming, and the use of personal protective equipment may be needed where disturbance of ACM is likely.
- d. Maintenance and custodial staff should limit certain activities in the vicinity of ACM that may cause damage, for example: ACM damage caused accidentally with broom handles, ladders, and fork lifts while performing custodial or maintenance tasks.

#### 6. O&M CLEANING PRACTICES:

- a. If asbestos containing dust or debris is present in some areas of a building special cleaning practices should be instituted to collect residual asbestos dust. Routinely cleaning floors using wet methods is an example of one such practice. Custodial and maintenance workers in the course of normal work should identify and report areas which are in need of special cleaning or repair.
- b. Proper O&M cleaning is important for two reasons:
  - The use of improper techniques to clean up asbestos debris caused by previous deterioration or damage may result in widespread contamination, and potentially increase airborne asbestos fiber levels in the building.
  - Improper cleaning may cause damage to the ACM, thus releasing more airborne asbestos fibers.
- c. Special clean up should include the following techniques:
  - Wet cleaning or wet-wiping practices.
  - Use of HEPA vacuums.

Care must be exercised in the disposal of wet cloths, rags, or mops that have been used to pick up asbestos fibers. They should not be left to dry out, since the collected fibers may be released at some later time when disturbed. HEPA vacuums should be moved to a physically isolated area before the filters are removed. Personnel should put on proper protective equipment before emptying the dust and debris into properly labeled, sealed, and leak-tight containers for disposal as asbestos-containing waste.

d. Decisions regarding special cleaning practices should be based on the building inspection and ACM assessment data, including the potential for ACM disturbance. In general, the building would not need special O&M cleaning when the building contains only nonfriable (not easily crumbled) ACM, or ACM which has been encapsulated, encased, or enclosed behind airtight barriers or is known to be undamaged/undisturbed since the last special cleaning.

#### 7. RESPONSE PROCEDURES FOR ASBESTOS FIBER RELEASE EPISODES:

**a.** Special Response Procedures: Special response procedures are generally needed to minimize the spread of fibers throughout the building after asbestos fiber releases occur, such as a partial collapse of an ACM ceiling or wall. These procedures are needed whether the ACM disturbance is intentional or unintentional. Fiber release episodes may be categorized as minor and major.

- **b.** Minor Fiber Release: A minor fiber release involves the unexpected falling or dislodging of less than or equal to three-square feet or three-linear feet of ACM. The following procedures should be implemented immediately:
  - Any person who has successfully completed Level 2, Special O&M Training can respond to a minor fiber release.
  - Personnel responding to a minor release episode shall wear personal protective clothing, to include:
    - Coveralls.
    - Respirator.
    - Hand and foot protection.
    - Eye protection.
  - The work area should be restricted by locking doors or putting up barrier tape.
  - Heating, ventilating, air conditioning (HVAC) systems should be shut off or modified to restrict air movement into or out of the incident area.
  - Critical barriers and warning signs should be installed.
  - The Director of Public Works (DPW) Asbestos Program Manager and MEDDAC should be notified.
  - Work procedures should include:
    - Mist air and wet down debris with amended water.
    - Place all gross debris in sealed, leak-tight containers.
    - Conduct necessary repairs to damaged asbestos surface.
    - Post-clean room using initial cleaning procedures.
    - Remove and dispose of any containment structures used in the room.
    - Remove and dispose of coveralls, hand and foot covering.
    - Seal all waste in appropriate bags
    - Remove, clean and disinfect respirator.
    - Fill out proper record keeping sheet.
    - Send copy of report to DPW-Asbestos Program Manager within 24-hours.
- **c. Major Fiber Release:** A major fiber release is defined as one involving more than three-square or three-linear feet of ACM. The following procedures should be implemented immediately following a major fiber release:
  - Only a Virginia licensed asbestos contractor can respond to a major fiber release episode. The licensed contractor should conduct the following action after being notified of the episode by the DPW Asbestos Program Manager:
    - Restrict access to the area by locking doors or putting up barrier tape.

- Immediately notify the MEDDAC.
- Post warning signs.
- Shut-off or modify the HVAC system or any other source of air movement within the immediate area.
- Mist air and wet down debris with amended water.
- Place all gross debris in sealed, leak-tight containers.
- Post-clean room using initial cleaning procedures.
- Remove and dispose of any containment structures used in the room.
- Remove and dispose of coveralls, hand and foot covering.
- Seal all waste in appropriate bags
- Remove, clean and disinfect respirator.
- Fill out proper record keeping sheet.
- Conduct final clearance air monitoring to verify satisfactory clean up.
- Send copy to the Asbestos Program Manager within 24-hours.

#### 8. SMALL-SCALE SHORT-DURATION O&M ACTIVITIES:

- a. Routine maintenance that will involve disturbing asbestos is called small-scale short-duration activities. This is different from ACM fiber release episodes because the asbestos has not yet been disturbed. This is a scheduled maintenance activity that will involve disturbing or removing asbestos in order to perform the maintenance activity.
- b. OSHA 29 CFR 1926.58 defines small-scale short-duration activities are tasks such as, but not limited to:
  - Removal of ACM on pipes.
  - Removal of small quantities of ACM insulation on beams or above ceilings.
  - Replacement of an ACM gasket or a valve.
  - Installation or removal of a small section of drywall.
  - Installation of electrical conduits through or proximate to ACM.
- c. EPA Regulation 40 CFR 763 Subpart E, Appendix B further defines small-scale short-duration maintenance activities by the following considerations:
  - Removal of small quantities of ACM, only if required in the performance on another maintenance activity not intended as asbestos abatement.
  - Removal of ACM thermal system insulation not to exceed amounts greater than those which can be contained in a single glove-bag.
  - Minor repairs to damaged thermal system insulation which do not require removal.
  - Repairs to a piece of ACM wallboard.

- Repairs involving encapsulation, enclosure or removal, to small amounts of friable ACM only if required in the performance of emergency or routine maintenance activity and not intended solely as asbestos abatement. Such work may not exceed amounts greater than those which can be contained in a single prefabricated minienclosure. Such an enclosure shall conform spatially and geometrically to the localized work area in order to perform its intended containment function.
- d. Any person who has successfully completed Level 2, Special O&M training may respond to small-scale short-duration maintenance activities. The following actions should be taken prior to the start of the activity:
  - Notify the DPW Asbestos Program Manager prior to the start of the activity.
  - All personnel involved with the maintenance activity shall wear personal protective clothing, to include:
    - Coveralls.
    - Respirator.
    - Hand and foot coverings.
    - Eye protection.
  - Restrict access to the work area by locking doors or putting up barrier tape.
  - Post warning signs.
  - Shut-off or modify HVAC systems to restrict air movement into or out of the area,
  - Remove all moveable objects from the work area.
  - Cover all remaining items in the work area with six-mil plastic to protect them from ACM dust and fibers.
  - Set-up critical barriers and necessary containment structures.
  - Keep ACM thoroughly saturated with amended water during the entire work process.
  - Place all gross debris in sealed, leak-tight containers.
  - Post-clean room using initial cleaning procedures.
  - Remove and dispose of any containment structures used in the room.
  - Remove and dispose of coveralls, hand and foot covering.
  - Seal all waste in appropriate bags
  - Remove, clean and disinfect respirator.
  - Fill out proper record keeping sheet.
  - Conduct final clearance air monitoring to verify satisfactory clean up.
  - Send copy of report to DPW Asbestos Program Manager within 24-hours.

#### 9. ASBESTOS WASTE:

- a. All waste must be containerized within two labeled, six-mil plastic bags. The bags must have the tops goosenecked and sealed with duct tape. Rigid or sharp debris should be placed in a burlap bag first.
- b. Containerized debris should be thoroughly saturated with amended water and not exceed 35 pounds (able to be handled by one person).
- c. Asbestos waste shall be turned into Fort Belvoir's hazardous waste building within 24-hours of project completion. Arrangements should be made with the DPW Asbestos Program Manager.
- **10. FINAL CLEARANCE:** At the conclusion of any asbestos work the DPW Asbestos Program Manager or MEDDAC will have the option of:
  - Visually inspecting the work to determine if the job was properly completed.
  - Collecting air samples.
  - Require further cleaning, if either the visual inspection or the air samples indicate that the clearance level will not be met.
- 11. SUBMITTALS: Copies of the following must be provided to the DPW Asbestos Program Manager for review and approval prior to any work being conducted on ACM:

#### Training Records to include:

- The trainee's name and job title
- The date(s) training was conducted.
- The training course provider.
- The number of hours of training completed.

#### Medical Surveillance Records:

- The name and social security number of the employee.
- A copy of the employee's medical examination results, including the physicians written recommendations.
- Written Respirator Protection Program.
- Manufacturers data sheets from all equipment that is to be utilized for any asbestos work.

12. RECORD KEEPING: Records shall be kept for the following and a copy forwarded to the DPW Asbestos Program Manager within 24-hours of any action:

# Any minor fiber release episode:

- The date and location of the episode
- The method of repair.
- A description of preventive measures used or response action(s) taken.

# • Any major fiber release episode:

- The date and location of the incident.
- A list of the Fort Belvoir agencies contacted.
- A description of preventive measures taken while waiting for the licensed contractor to respond.

#### Small-scale short-duration activities:

- The name of the person(s) performing the activity.
- The location, start and completion dates of the activity.
- A description of the activity including preventive measures.
- A description of the waste, to include the number of bags generated and what type of container was utilized.

TAB	H
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# SAMPLE MEDICAL QUESTIONNAIRES

# PART 1 INITIAL MEDICAL QUESTIONNAIRE

OCCUPATIONAL HISTORY

ф. ф	NAME	17A. Mave you ever worked full time (30 hours per week or more) for 6 months or more? 1. Yes 2.
	SOCIAL SECURITY 1 2 3 4 5 6 7 8 9	ф
	CLOCK NUMBER 10 11 12 13 14 15	<ul> <li>B. Have you ever worked for a year or more</li> <li>in any dusty job?</li> <li>3. Does not app</li> </ul>
	PRESENT OCCUPATION	Specify job/industry
	PLANT	Output is the first that the second of the second of the second output is the second output i
	ADDRESS	Was dust exposure: 1. Mild 2. Moderate 3. Seven
	(2ip Code)	C. Have you ever been exposed to gas or 1. Yes 2. M chemical fumes in your work?  Specify job/industry  Total Years Work
	TELEPHONE NUMBER	Was exposure: 1. Mild 2. Moderate 3. Servei
	INTERVIEUER	and the state of t
.01	DATE	
	16 17 18 19 20 21	1. Job occupation
	Date of Birth Month Day Year 22 23 24 25 26 27	
	Place of Birth	3. Position/job title
	Sex 1. Male 2. Female	4. Business, field or industry (Record on lines the years in which you have worked in any of
	What is your marital status? 1. Single 2. Married	industries, e.g. 1960-1969)
	3. Widowed 4. Separated/ Divorced	YES E. In a mine?
	Shite.	f. In a quarry? [ ]
		G. In a foundry? [ ]
	in school?	H. In a pottery? [ ]
	(rof example 12 years is completion of high school)	1. In a cotton, flax, or hemp mill? [ ]

J. With asbestos? ......

 % 		2. No	1. Yes 2. No		Age in Years Does Not Apply	2. No _		3. Does Not Apply	Age in Years Does Not Apply	2. No _		1. Yes Z. Wo	Age in Years	É	6. NO	2. No	3. Does not Apply	Age in Years Does Not Apply	
		Yes	7. Yes		Age Does	1. Yes	, Y & &	и. Об	A G	1. Yes		1. Yes 3. Does	<b>8</b> €	3 :	. 4	,	1. Yes 3. Does M	A 0	
Did you have any lung trouble before the age of 167	Mave you ever had any of the following?	Attacks of bronchitis?	IF YES TO 1A: Was it confirmed by a doctor?		At what age was your first attack?	Pneumonia (include bronchopneumonia)?			. At what age did you first have it?	Key Fever:	1F YES TO 3A:	_	C. At what age did it start?		Have you ever had chronic bronchitis?	IF YES TO 23A: Do you still have it?	Was it confirmed by a doctor?	At what age did it start?	
21. Did the	22. Hav	1	æ		ပ	28.	<b>s</b>		ů	¥.		œ.	ú		23A. H		خد ن	<b>∢</b> .	
YES NO	th? ( ) ( )		( ) ( )				fered from:	187 [ ] [ ]		( ) ( )	( ) ( )		[ ] [ ]		1. Yes 2. No	3. Don't get color	1. Yes 2. No k,	1. Yes 2. No 3. Does No. Apply	Number of illnesses
PAST MEDICAL HISTORY	Do you consider yourself to be in good healt	If "NO" state reason	Have you any defect of vision?	If WYESM state nature of defect	Mave you any hearing defect?	If MYES" state nature of defect	Are you suffering from or have you ever suffered from:	a. Epilepsy for fits, seizures, convulsions?		c. Kidney disease?	d. Bledder disease?	e. Diabetes?	f. Jaundice?	CHEST COLDS AND CHEST ILLNESSES	If you get a	your chest? (Usually means more than 1/2 the time)	During the past 3 years, have you had any chest illnesses that have kept you off work, indoors, at home, or in bed?	IF YES TO 20A: Did you produce phiem with any of these chest illnesses?	In the last 3 years, how meny such illnesses with (increased) phiegm did you have which lasted a week or more?
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If YES TO 24.5  Do you still have it?  Lo you still have it?  So Does Not Apply  At what age did it start?  Lo you still have it?  So Does Not Apply  Have you ever had asthma?  If Yes TO 25.6  Do you still have it?  Lo you still have it?  At what age did it start?  At what age of the start?  At what age of the start?  At what age of the start?  If yea, please specify  Any chest operations?  If yea, please specify  If yea, please specify  Has a doctor ever told you that you had  If yea, please specify  Lif yea, please specify

1. Yes _ 2. No _ 1. Yes _ 2. No 2. No 3. Does Not Apply _ 1. Yes _ 2. No 2. No 1. Yes _ 2. No 2. No 1. Yes _ 2. No 2. No 1. Yes _ 2. No 1. Yes	ANSUER THE FOLLOWING:	1. Yes 2. No	Number of Years Does Not Apply		1. Yes _ 2. No _		Number of years Does not apply			, Yes	1	mt? Number of years	ng 1. Yes 2. No		rst Age in years Does Not Apply	1. Yes 2. No 3. Does Not Apply	1. Yes 2. No
Do you usually have a cough? (Count 1. Yes	IF YES TO ANY OF THE ABOVE (33A, B, C, OR D), ANSWER THE FOLLOWING: IF NO TO ALL, CHECK DOES NOT APPLY AND SKIP TO 34A.	E. Do you bring up phiega like this on most days for 3 consecutive months or more during the year?		EPISODES OF COUGH AND PHLEGH		*(for persons who usually have cough	IF YES TO 34A For how long have you had at least such episode per year?	WIEEZING						that has made you feel short of pressi			b. Have you ever required medicine or
Do you usually have a cough? (Count a cough with first smoke or on first going out of doors. Exclude clearing of throat.) (If no, skip to question 32A.)  Do you usually cough as much as 4 to 6 times a day 4 or more days out of the week?  Do you usually cough at all on getting up or first thing in the morning?  Do you usually cough at all during the rest of the day or at night?  ES TO ANY OF ABOVE (32A, 8, C, or D), ANSWER TO ANY OF ABOVE (32A, 8, C, or D), ANSWER TO ANY OF ABOVE (32A, 8, C, or D), ANSWER TO ANY OF ABOVE (32A, 8, C, or D), ANSWER TO ANY OF ABOVE (32A, 8, C, or D), ANSWER TO ANY OF ABOVE (32A, 8, C, or D), ANSWER TO ANY OF ABOVE (32A, 8, C, or D), ANSWER TO ANY OF ABOVE (32A, 8, C, or D), ANSWER TO ANY OF ABOVE (32A, 8, C, or D), ANSWER TO You usually bring up phlegm from Your chest?  Do you usually bring up phlegm at all on getting up or first thing in the morning?  Do you usually bring up phlegm at all on getting up or first thing in the morning?  Do you usually bring up phlegm at all and the rear of the meek?		2. No		1				sea Not Apply						1		1	2. %
	<b>.</b>	Do you usually have a cough? (Count a cough with first smoke or on first and out of doors. Exclude clearing		Do you usually cough as much as 4 to 6 times a day 4 or more days out of	the week? Do you usually cough at all on getting up or first thing in the morning?	Do you usually cough at all during the rest of the day or at might?	YES TO ANY OF ABOVE (\$2A, B, C, or D), ANSWER THE FOUNTL, CHECK DOES NOT APPLY AND SKIP TO NEXT PAGE	. Do you usually cough like this on most 1. Yes	Cays for J conserved to Christo the Year?	for how many years have you had the cough?	Took Book to the South of London	count phiese with the first smoke or on	from the nose. Count swallowed phiegra.)	Do you usually bring up phiegm like this		Do you usually bring up phiesm at all on getting up or firat thing in the morning?	Do you usually bring up phiegm at all

Cigarettes per day Does Not Apply		rately	1. Yes 2. No		Age	Age stopped Check if still smoking pipe	Does Not Apply	(a standard pouch of tobacco containing 1 1/2	oz.) Does Not Apply	Not currently smoking a pipe	1. Never smoked 2. Not at all 3. Si ightly 4. Moderately	S. Ueepty —	
<ul> <li>f. On the average of the entire time you smoked, how many cigarettes did you smoke per day?</li> </ul>	<ul><li>G. Do or did you inhale the cigarette</li><li>Smoke?</li><li>3</li></ul>		<pre>40A. Have you ever smoked a pipe     regularly? (Yes means more than 12 oz. of tobacco in a lifetime.)</pre>	IF YES TO 40A: FOR PERSONS WHO HAVE EVER SMOKED A PIPE	B. 1. How old were you when you started to smoke a pipe regularly?	<ol> <li>If you have stopped smoking a pipe completely, how old were you when you stopped?</li> </ol>	C. On the average over the entire time	you smoked a pipe, how much pipe tobacco did you smoke per week?		smoking now?	E. Do you or did you inhale the pipe smoke?		
e		1. Yes 2. No	1. Yes 2. No	3. Does not Apply	1. Yes 2. No 3. Does Not Apply	3. Does Not Apply	e 1. Yes 2. No e 3. Does Not Apply		1. Yes 2. No	1. Yes 2. No	3. Does Not Apply	Age stopped Check if still smoking Does Not Apply	Cigarettes per day
	other than heart or lung disease, pleased describe and proceed to question 39A. Nature of condition(s)	Are you troubled by shortness of breath when hurrying on the level or walking up a slight hill?	IF YES TO 38A Do you have to walk slower than people	of your age on the level because of breathlessness?	Do you ever have to stop for breath when walking at your own pace on the level?	Do you ever have to stop for breath after walking about 100 yeards (or after a few minutes) on the level?	Are you too breathless to leave the house or breathless on dressing or climbing one flight of stairs?	TOBACCO SMOKING	Have you ever smoked cigarettes? (No means less than 20 packs of cigarettes or 12 oz. of tobacco in a lifetime or the band of tobacco in a lifetime or the band of tobacco.	IF YES TO 39A  Do you now smoke cigarettes (as of one	one month ago) How old were you when you first started regular cigarette smoking?	If you have stopped smoking cigarettes A completely, how old were you when you D stopped?	How many digarettes do you smoke per day now?
BREATH 37.		38A.	œ		ပ	Ġ	ů.	TOBAC	39A.	<b>.</b>	ប់	å	ய்

1. Yes _ 2. No _	Age	Age stopped Check if still smoking cigars Does Not Apply	Cigars per week	Cigars per week Check if not smoking cigars currently	1. Never smoked 2. Not at all 3. Slightly 4. Moderately 5. Deeply	Date
41A. Have you ever smoked cigars regularly? (Yes means more than 1 cigar a week for a year.)  If YES TO 41A:	FOR PERSONS WHO MAVE EVER SHOKED CIGARY  8. 1. How old were you when you started smoking cigars regularly?	<ol> <li>If you have stopped smoking cigers completely, how old were you when you stopped.</li> </ol>	C. On the average over the entire time you smoked cigars, how many cigars did you smoke per week?	D. Now many cigars are you smoking per week now?	E. Do or did you inhale the cigar smoke?	

# PART 2

In the past year, were you 1. Yes 2. No exposed to gas or chemical funes in your work?	Was exposure: 1. Mild 2. Moderate 3. Severe	in the past year what was your:	2. Position/job title/ RECENT MEDICAL HISTORY	. Do you consider yourself to be in good health	If NO, state reason	developed the you Epilepsy?  Abelian Sheumatic fever?	Kidney disease?	Diabetes?	CHECT FOLDS AND CHEST 11 MESSES			IF YES TO 15A: Did you produce phlem with any of these 1. Yes 2. No chest illnesses?	In the past year, how many such illnesses illnesses with (increased) phiegm did No such illnesses you have which lasted a week or more?	
<u>\$</u>	12E.	12#,	ŧ.	134.		۲. و			7	14A.	15A.	158	15c.	
PART 2 PERIODIC MEDICAL QUESTIONMAIRE	NAME	. SOCIAL SECURITY 1 2 3 4 5 6 7 8 9		PRESENT OCCUPATION		(Sip Code)	TELEPHONE NUMBER	INTERVIEWER	10. DATE 16 17 18 19 20 21	11. What is your marital status? 1. Single 2. Married 3. Widowed 4. Separated/	Divorced	12A. In the past year, did you work 1. Yes 2. No full time (30 hours per week or more) for 6 months or more?	If YES TO 12A:  128. In the past year, did you work 1. Yes 2. No in a dusty job?  3. Does Not Apply	12C. Was dust exposure: 1. Mild 2. Moderate 3. Severe
	*	7	m	4 R	<b>%</b>	<b>7.</b>	<b>e</b>	<b>∵</b> TA	≠ B H-:		<del>*-</del>	<u></u>	<u></u>	كس
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RESPIRATORY SYSTEM
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In the past year have you had:

Tes of Mo Furkher Comments of Fortstee										Yes or No Further Comment on Positive							Packs per day	
68 OF #0				CHANGE AND PROPERTY OF THE PERSON NAMED IN COLUMN NAMED IN COL					On the second se	es of No						- Anna Anna Anna Anna Anna Anna Anna Ann		
A	Asthma	Bronchitis	Hay Fever	Other Allergies	Pneumonia	Tuberculosis	Chest Surgery	Other Lung Problems	Heart Disease	Do you have:	Frequent colds	Chronic cough	Shortness of breath when walking or climbing one flight of steirs	Do you:	Wheeze	Cough up philegm	Smoke cigarettes	

#### RESPIRATORY PROTECTION PROGRAM

1. Introduction: This program is designed to ensure the proper selection, use, care, and maintenance of respirators used during performance of tasks associated with asbestos and the Operations and Maintenance (O&M) Program. The guidelines set forth are in support of requirements outlined in 29 CFR 1910.134 and the ANSI Standard Z88-2-1980, Standard Practice for Respiratory Protection. The program requirements apply to the Government (Fort Belvoir) as well as contractors engaged in applicable work for the Government at Fort Belvoir. Government employees will also comply with Federal Regulation 385-2 Chapter 6 Respiratory Protection.

It shall be the Employer's responsibility to provide respirators when such equipment is necessary to protect the health of the employee. The employer shall provide the respirators which are applicable and suitable for the intended purpose. The employer shall be responsible for the establishment and maintenance of a respiratory protection program. Contractors shall submit a copy of their respiratory program for approval by the Asbestos Program Manager as a condition of their contract with the government.

It shall be the employees' responsibility to use the provided respiratory protection in accordance with instructions and training received.

- 2. Requirements: A minimally acceptable program includes the following requirements:
  - Written Standard Operating Procedures governing the selection and use of respirators shall be established. Possible emergency and routine use of respirators should be anticipated and planned.
  - Respirators shall be selected on the basis of hazards to which the worker is exposed.
  - The user shall be instructed and trained in the proper use of respirators and their limitations.
  - Respirators shall be regularly cleaned and disinfected. Those used by more than one worker shall be thoroughly cleaned and disinfected after each use.
  - Respirators shall be stored in a convenient, clean, and sanitary location.
  - Respirators used routinely shall be inspected during cleaning. Worn or deteriorated parts shall be replaced.
  - Appropriate surveillance of work area conditions and degree of employee exposure or stress shall be maintained.

- There shall be regular inspection and evaluation to determine the continued effectiveness of the program.
- Persons should not be assigned to tasks requiring use of respirators unless it has been determined that they are physically able to perform the work and use the equipment.
   A local physician shall determine what health and physical conditions are pertinent.
- NIOSH approved or accepted respirators shall be used. The respirator furnished shall provide adequate respiratory protection against the particular hazard for which it is designed in accordance with standards established by competent authorities. Respirator filters should be NIOSH approved for asbestos if air purifying type.

The correct respirator will be specified for each job. The respirator type is usually specified in the work procedures by a qualified individual supervising the respiratory protection program. The individual issuing them shall be adequately instructed to insure that the correct respirator is issued.

Written procedures shall be prepared covering safe use of respirators in dangerous atmospheres that might be encountered in normal operations or in emergencies. Personnel shall be familiar with these procedures and the available respirators.

In areas such as confined spaces, where the wearer, with failure of the respirator, could be overcome by a toxic or oxygen-deficient atmosphere at least one additional worker shall be present. Communications (visual, voice, or signal line) shall be maintained between both or all individuals present. Planning shall be such that one individual will be unaffected by any likely incident and have the proper rescue equipment to be able to assist the other(s) in case of emergency. All work in confined spaces shall be accomplished in accordance with 29 CFR 1910.146.

Respiratory protection is no better than the respirator in use, even though it is worn conscientiously. Frequent random inspections shall be conducted by a qualified individual to ensure that respirators are properly selected, used, cleaned, and maintained.

For safe use of any respirator, it is essential that the user be properly instructed in its selection, use, and maintenance. Both supervisors and workers shall be so instructed by competent persons. Training shall provide the individual an opportunity to handle the respirator, have it fitted properly, test its face-piece-to-face seal, wear it in normal air for a long familiarity period and, finally, to wear it in a test atmosphere.

Every respirator wearer shall receive fitting instructions including demonstrations and practice in how the respirator should be worn, how to adjust it, and how to determine if it fits properly. Respirators shall not be worn when conditions prevent a good face seal. Such conditions may be a growth of beard, sideburns, a skull cap that projects under the facepiece, or temple pieces on glasses. Also, the absence of one or both dentures can seriously affect the fit of the facepiece. The worker's diligence

in observing these factors shall be evaluated by periodic check. To assure proper protection, the facepiece fit shall be checked each time the wearer puts on the respirator. This may be done by following the manufacturer's facepiece fitting instructions.

Providing respiratory protection for individuals wearing corrective glasses is a serious problem. A proper seal cannot be established if the temple bars of eye glasses extend through the sealing edge of the full facepiece. As a temporary measure, glasses with short temple bars or without temple bars may be taped on the wearer's head. Wearing contact lenses in contaminated atmospheres with a respirator shall not be allowed. Systems have been developed for mounting corrective lenses inside full facepieces. When a worker must wear corrective lenses as part of the facepiece, the facepiece and lenses shall be fitted by qualified individuals to provide good vision, comfort, and a gas-tight seal.

If corrective spectacles or goggles are required, they shall be worn so as to not affect the fit of the facepiece. Proper selection of equipment will minimize or avoid this problem.

- 3. Maintenance and Care of Respirators: A program for maintenance and care of respirators shall be adjusted to the type of building, working conditions and hazards involved, and shall include the following basic services to maintain the equipment at original performance effectiveness.
  - All respirators shall be inspected routinely before and after each use. A respirator that is not routinely used but is kept ready for emergency use shall be inspected after each use and at least monthly to assure that it is in satisfactory working condition.
  - Respirator inspection shall include a check of the tightness of connections and the condition of the facepiece, headbands, valves, connecting tube, and canisters. Rubber or elastomer parts shall be inspected for pliability and signs of deterioration. Stretching and manipulating rubber or elastomer parts with a massaging action will keep them pliable and flexible and prevent them from taking a set during storage.
  - A record shall be kept of inspection dates and findings for respirators maintained for emergency use.
  - Routinely used respirators shall be collected, cleaned and disinfected as frequently as
    necessary to insure that proper protection is provided for the wearer. Respirators
    maintained for emergency use shall be cleaned and disinfected after each use.
  - Replacement or repairs shall be done only by competent persons. To make adjustments or repairs beyond the manufacturer's recommendations is strictly prohibited. Reducing or admissions valves or regulators shall be returned to the manufacturer or to a trained technician for adjustment or repair.

- After inspection, cleaning, and necessary repair, respirators shall be stored to protect against dust, sunlight, heat, extreme cold, excessive moisture, or damaging chemicals. Respirators placed at stations and work areas for emergency use should be quickly accessible at all times and should be stored in compartments built for the purpose. The compartments should be clearly marked. Routinely used respirators, such as dust respirators, may be placed in plastic bags.
- Respirators should not be stored in such places as lockers or tool boxed unless they are in carrying cases or cartons.
- Respirators should be packed or stored so that the facepiece and exhalation valve will
  rest in a normal position and function will not be impaired by the elastomer setting in
  an abnormal position.
- 4. Standard Written Plan or Standard Operating Procedure: Following is a condensed individual user's standard operating procedure (SOP) for the use, care, and maintenance of assigned respirators. The content of the SOP shall be provided with formal training, fit-testing, and hands-on demonstration of care and maintenance prior to issuance of respirators to individuals.

#### Individual User's Respiratory Protection Standard Operating Procedures (SOP)

This SOP contains information and guidance for proper respirator selection, use, care, and maintenance. Reference directives include 29 CFR 1910.134, Respiratory Protection Program, and applicable manufacturer's literature.

- 1. General: Each individual required to use a respirator will be fit tested and trained. They must be fit tested with the particular brand name respirator they will use.
- 2. Issued Respirator Description and Authorized Use:

TYPE RESPIRATOR TC(APPROVAL STICKER) OPERATION/USE

- 3. Usage: Before each use of an approved respirator, the wearer shall perform the following procedures:
  - a. Inspection
    - (1) Check all parts for wear or defects.
    - (2) Check approval sticker (TC#) on filters, canisters, or cartridges to assure it is appropriate for the intended use.
    - (3) Replace filters, canisters, or cartridges if necessary.
  - b. Leakage Test
    - (1) Positive Pressure Test: Close the exhaust valve and exhale gently into the facepiece. The respirator and fit is considered satisfactory if a slight positive pressure can be built up inside the facepiece without any evidence of outward leakage of air at the seals. For some respirators, this method will require the wearer to first remove the exhaust valve cover and then carefully replace it after the test.
    - (2) Negative Pressure Test: Close off the inlet opening of the filters, canisters, or cartridges be covering with the palm of the hand. Inhale gently so that the facepiece collapses slightly and hold breath for ten seconds. If the facepiece remains in a slightly collapsed condition and

no inward leakage of air is detected, the respirator and fit is considered satisfactory.

- **4. Filters, Canisters, or Cartridges Replacement:** The user will recognize the end of the filters, canisters, or cartridges' service life by three methods:
  - a. Check the manufacturer's recommended shelf life.
  - b. When the wearer detects a resistance in breathing or an extra effort is needed to inhale.
  - c. When the wearer detects an odor or smells the chemicals being used.

In all cases, regardless of how the wearer has detected the end of the service life of the filters, canisters, or cartridges, they should immediately exit the operating area, correct the problem, and perform all the necessary checks prior to entry/reentry.

#### 5. Cleaning and Maintenance Requirements:

- a. Individual Use Respirators. The individual user is responsible for care and maintenance.
- b. Collective Use Respirators. The supervisor is responsible for establishing a maintenance and cleaning program.
  - (1) The maintenance and cleaning program must ensure the requirements provided in 29 CFR 1910.134 are adhered to as a minimum acceptable program.
  - (2) The actual cleaning and maintenance of a collective use respirator may be performed by the individual using the respirator or the task may be assigned to the section responsible for the storage and issuing of collective use respirators.
- c. All respirators must be inspected before and after each use or at least monthly.
- d. Inspect the head band, mask, valves, connecting type (if applicable), and cartridges for deterioration. Rubber parts should be checked for elasticity and cracks. Stretching and manipulating rubber parts when stored for several weeks will help prevent deterioration. The valves should be inspected for tears and any obstructions to proper sealing. Cartridges or canisters which are cracked or broken should be replaced.

e. When a mask is used only for emergencies, a record of monthly inspections with dates, findings, and corrective actions shall be maintained buy the owning agency.

#### 6. Cleaning and Disinfection Procedure:

- a. Individually issued respirators shall be cleaned and disinfected by the user on a frequent basis to eliminate build-up of skin oil and grime.
- b. Respirators maintained for emergency use should be cleaned and disinfected after each use.
- c. Procedures for cleaning:
  - (1) Remove filters, cartridges, or canisters.
  - (2) Wash thoroughly with a detergent and warm water (120°F to 140°F), scrubbing with a soft brush.
  - (3) Rinse thoroughly in clean, warm water (120°F to 140°F), to remove all traces of detergent. Place respirator in a clean area to dry.
  - (4) Air dry in a clean area.
  - (5) Clean other respirator parts as recommended by the manufacturer.
  - (6) Replace defective parts if necessary.
  - (7) Place in plastic bag for storage.
- d. Sanitizing. When disinfecting respirators, they should be washed (as outlined above), then dipped into a disinfecting solution, then rinsed and dried, (as outlined above). Rinsing is extremely important to prevent dermatitis.

#### 7. Repairs and Replacement of Parts:

- a. Only experienced personnel shall replace parts.
- b. Only manufacturer's parts designed for that use shall be used.
- c. Filters, cartridges, valves, and head straps shall be replaced when defective.
- d. Replace respirator if facepiece is defective.

## 8. Storage:

- a. Do not store respirators and parts in:
  - (1) dusty areas
  - (2) direct sunlight
  - (3) temperature extremes
  - (4) a high humidity area
  - (5) toxic chemicals
- b. Store in such a manner/area as to prevent the facepiece from being deformed.

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## PERMIT APPLICATION FOR MAINTENANCE/RENOVATION WORK

## PERMIT APPLICATION FOR MAINTENANCE/RENOVATION WORK

1.	Exact location of area involved: Bldg NoRm. No Description:
2.	Scheduled Start Date: Scheduled Completion Date:
3.	Description of work involved:
4.	*Approximate amount of asbestos present (linear feet, square feet, size of tank, etc.):
5.	*Asbestos control methods to be used (i.e., glove bag, HEPA vacuum, wet methods, etc.)
6.	*Protective equipment to be used (respirator, coveralls, etc.)
7.	*Name, organization, and telephone number of abatement project manager:
* The	se items must be verified and/or completed by the Asbestos Program Manager.
PERN	MIT APPROVED:  NO ASBESTOS IDENTIFIED  RESPONSE ACTIONS COMPLETE
Signe	d: Permit No
Subm Fort I	it this form to: Directorate of Public Works, Environmental and Natural Resources Division, Belvoir, VA 22060

TAB J-2

# OPERATIONS AND MAINTENANCE PROCEDURES FOR ASBESTOS CONTAINING MATERIALS BY MATERIAL TYPE

ACM Acoustic Ceiling Tile: When in good and undamaged condition, acoustic ceiling tiles pose no immediate threat to health; however, ceiling tiles are easily damaged and made friable by physical or water damage. When the interior of the tiles becomes exposed, the potential for a fiber release from the tile is enhanced resulting in contamination of the surrounding area. Asbestos-containing ceiling tiles are to be identified to all concerned, kept protected from damage, and their condition kept under periodic surveillance until removed. The use of power or hand tools to penetrate the tiles is to be prohibited unless equipment specially equipped with high velocity, low volume HEPA-filtered exhaust is used. When replacing single tiles or performing work in the area of these tiles, proper preparatory and work precautions shall be used; cleaning and preparation of the work area to control contamination; use of full body protective clothing, and a minimum of negative air pressure respiratory protection employing appropriate HEPA filtration against asbestos. Friable tiles require considerably more care in handling, removal, and subsequent decontamination of surfaces. Access to work areas must be restricted, air handling/supply units turned off and sealed and the area properly contained to stop any spread of contamination. Place removed or damaged tiles into six-mil polyethylene asbestos waste disposal bags, seal properly, and dispose as asbestos waste in accordance with applicable Federal and State laws and regulations.

ACM Thermal System Insulation: Thermal system insulation is susceptible to disturbances from physical contact, water, vibration, and air erosion. The insulation may be a soft and friable such as magnesium type or air cell insulation or hard insulation coatings often used on pipe joints or tanks. Whether friable or intact these systems are especially subject to physical damage and deterioration because they are sometimes unwrapped or merely encapsulated in paint. Protect these systems and perform preventive measures that stop direct physical contact, water damage, vibration, or air erosion of the material. Do not hang or store items on or in direct contact with these systems or their components such as valves, tees, elbows, or straight sections of insulation. Do not allow maintenance on the system, components, or underlying parts of the insulation wrap without consulting the Asbestos Program Manager. Maintain all thermal system components in an intact and undamaged condition. Promptly report any evidence of damage (e.g., visible debris or dust on horizontal surfaces directly under piping, elbows, or other system components) or accidental damage which exposes asbestos fibers to the air. Report damage to this material as a major or minor fiber release episode (as appropriate) to the Asbestos Program Manager or other designated person for action, and treat it accordingly. Ensure repair of all damage is accomplished in a "timely fashion." Use respiratory protection and personal protective equipment when performing small spot repairs.

Clean the area using wet methods and/or High Efficiency Particulate Absolute (HEPA) vacuums. Annual cleaning is to be performed, including spraying any debris found near asbestos-containing insulation with amended water and placing the debris in a properly marked 6-mil plastic disposal bag using a dustpan. Clean the dust pan with water in a utility sink. HEPA vacuum all carpets in rooms with asbestos-containing insulation; wet mop all other floors and dust all other horizontal surfaces with damp cloths in rooms with asbestos-containing insulation; seal all debris, vacuum bags, vacuum filters, cloths, and mop heads in properly marked six-mil plastic disposal bags for disposal according to EPA regulations for asbestos waste.

ACM Resilient Floor Covering - Floor Tile and Sheet Flooring: Asbestos has been identified in vinyl floor tile and sheet flooring and/or in their adhesives. The asbestos in these substances however, is normally non-friable unless severe damage has occurred, or if the flooring has been disturbed by maintenance activity such as sanding, drilling, sanding, or abrasive buffing.

Regularly scheduled maintenance activities such as washing and waxing floors are the best way to ensure that asbestos fibers are not released. In addition, do not sand, drill, gouge, etc., resilient floors. If a piece of resilient flooring is damaged, an employee with Level 2 training, wearing protective equipment, should 1) wet the area with amended water, 2) put the piece(s) in a six-mil asbestos waste bag, and 3) HEPA vacuum the area. Repair the damaged area so adjoining tiles do not become dislodged.

If the damaged area was assumed to be ACM, and the area can be sealed for some time, a sample should be extracted by an employee with Level 2 training. The sample should be submitted to an accredited EPA laboratory for analysis to confirm the presence of asbestos. Depending on the result of the analysis, work shall proceed accordingly.

Transite Panels: Transite panels include interior panels, as well as exterior siding, corrugated roof panels and shingles. When in a good and undamaged condition, transite panels pose no immediate threat to health and are not usually considered a friable material; however, these panels may become friable when physically or water damaged. Once broken, the interior of the panel is exposed, where the asbestos fibers are more easily released. Further damage will create debris and a fiber release causing contamination of the surrounding area. Asbestos-containing transite panels are to be identified to all concerned and kept protected from damage and their condition kept under periodic surveillance until removed. The use of power or hand tools to penetrate the panels is to be avoided unless equipment specially equipped with high velocity, low volume HEPA-filtered exhaust is used.

When replacing transite panels or performing work in near proximity of these panels, proper preparatory and work precautions shall be used; cleaning and preparation of the work area to control contamination; use of full body protective clothing, and a minimum of negative pressure respiratory protection employing appropriate HEPA filtration against asbestos. Friable transite panels require considerably more care in handling, removal, and subsequent decontamination of surfaces. Access to work areas must be restricted, air-handling/supply units turned off and sealed, and the area

properly contained to stop any spread of contamination. See also the O&M Program Document recommendations for fiber release episodes, related cleaning activities, personal protective equipment, and asbestos waste material. Place removed or damaged panels into six-mil polyethylene asbestos waste disposal bags, seal properly, and dispose as asbestos waste in accordance with applicable Federal and State laws and regulations.

ACM Fire Doors: Ensure that fire doors are not penetrated with tools, and temporary door removal is achieved by loosening the hinges from the door frame. Fire doors, fully and safely enclosing or encapsulating ACM within it, present no hazard to the building occupants. Upon renovation, demolition, or other major repair actions undertaken within the building, precautions must be taken to ensure the integrity of all fire doors is fully maintained. Fire doors have been identified and their condition generally assessed as part of the initial survey. Their condition shall be monitored under the surveillance program. Promptly report damage, penetrations, or vandalism, to the Asbestos Program Manager. Subsequent treatment as a fiber release episode will be initiated, along with fire door replacement. Due to the large size of the doors, special care shall be taken to wrap damaged ACM doors in two layers of six-mil polyethylene plastic in lieu of disposal bags.

**ACM Wall Mastic - Wall Coating:** Asbestos was identified in wall mastic and other adhesives. However, the asbestos in these substances is normally non-friable unless severe damage has occurred to the materials or if some maintenance activity has occurred (e.g., sanding, drilling).

Regularly scheduled maintenance activities such as patching and repair of the materials are the best way to ensure that asbestos fibers are not released. In addition, do not sand, drill, gouge, etc. these materials. If an area of mastic is damaged, an employee with Level 2 training wearing protective equipment should 1) wet the area with amended water, 2) put the piece (s) in a six-mil asbestos waste bag, and 3) HEPA vacuum the area. The damaged area shall be repaired so surrounding areas do not become damaged.

**ACM Debris:** If ACM debris is identified in an area, access should immediately be restricted to Level 2 trained personnel wearing personal respiratory protection and clothing. The area should be sealed and warning signs posted to prevent access by unauthorized personnel.

Spray the debris and surrounding area with amended water. Place the debris in an asbestos labeled six-mil waste bag using a dust pan. HEPA vacuum the dust pan in a utility sink. Report the location of debris to the Asbestos Program Manager.

<u>CAUTION</u>: DO NOT SWEEP ASBESTOS DEBRIS, THOROUGHLY WET IT, PICK UP LARGE PIECES, AND HEPA VACUUM THE RESIDUAL PIECES.

- HEPA vacuum and steam clean all effected carpets.
- Wet mop all other floors and wipe all other horizontal surfaces with damp cloths.

• Dispose of all debris, filters, mop heads and cloths in labeled six-mil plastic bags in accordance with local regulations for disposal of asbestos waste.

**ACM Flexible Duct Connector:** As a first measure, maintenance or building employees shall restrict activity that may damage the flexible duct connectors. For example:

- Do not cut or drill holes in the flexible duct connector.
- Do not damage intact material.
- Do not use an ordinary vacuum or dry sweeping to clean any debris that have accumulated.

If the flexible duct connector is damaged, or if required for periodic maintenance, replace the connector with a non-asbestos flexible duct connector. To remove and replace the flexible duct connector:

- Shut down the ventilation system, if applicable.
- Isolate air duct section, if applicable.
- Thoroughly wet exposed material with amended water using a spray bottle.
- Loosen bolts on flanges holding material in place.
- Carefully remove all material, periodically wetting with amended water from a spray bottle.
- Thoroughly clean entire area in accordance with the specialized cleaning procedures included in this O&M program.
- Dispose of all material in accordance with applicable rules and regulations.

**ACM Gasket Material:** As a first measure, restrict activities that may damage the gasket material. For example:

- Do not cut or drill holes in the gasket material.
- Do not damage intact gasket material.
- Do not use an ordinary vacuum or dry sweeping to clean any debris that may have accumulated.

If the gasket material is damaged, or if required for periodic maintenance, replace the gasket with a non-asbestos gasket. To remove and replace the gasket material:

- Shut down the ventilation system, if applicable.
- Isolate air duct section, if applicable.
- Thoroughly wet exposed material using a spray bottle.
- Loosen bolts on flanges holding material in place.
- Carefully remove all material, periodically wetting with water from a spray bottle.
- Thoroughly clean entire area in accordance with the specialized cleaning procedures included in this O&M program.
- Dispose of all material in accordance with applicable rules and regulations.

#### FIBER RELEASE EPISODE REPORT

## FIBER RELEASE EPISODE REPORT

rerembe opio	ode was reported by	on	(Date)
Describe the epi	sode:		
The asbestos-con Describe the resp	ntaining material was/was no	t cleaned up according	ng to approved proc
The asbestos-con Describe the resp	ntaining material was/was no ponse action:	t cleaned up according	ng to approved proc
The asbestos-con Describe the resp	ntaining material was/was no ponse action:	t cleaned up according	ng to approved proc
The asbestos-con Describe the resp	ntaining material was/was no ponse action:	t cleaned up according	ng to approved proc

TAB :	

## REASSESSMENT OF ASBESTOS CONTAINING MATERIALS

#### REASSESSMENT OF ASBESTOS CONTAINING MATERIALS

descrip	on of asbestos containing material(s) (address, building number, room number, or general stion:
	f asbestos containing material(s)
	Sprayed or troweled-on ceilings or walls: Sprayed or troweled-on structural members: Insulation on pipes, tanks, or boilers:
Abaten	nent Status:
	The material has been: EncapsulatedEnclosedNeither
Assessi	ment:
,	Evidence of physical damage:
	Evidence of water damage:
	Evidence of delamination or other deterioration:
	Degree of accessibility of the material:
	Degree of activity near the material:
	Location in an air plenum, air shaft, or air stream:
	Other observations (including the condition of the encapsulant or enclosure, if any):
Signed:	Date:

## OPERATIONS AND MAINTENANCE PROGRAM EQUIPMENT

## A. Recommended Personal Protective Equipment:

Category/Equipment	<u>Unit</u>	Quantity	Approximate Unit Cost
First Aid Kit	each	3	50.00
Rubber Boots	pair	5	25.00
Tyvek Booties	case of 25 pr	1	30.00
Tyvek Suits (Full-body)	case of 25	2	100.00
Latex Gloves	box of 100	1	10.00
Hard Hats	each	5	10.00
Safety Shoes	pair	5	85.00
Ear Plugs	box 200 pr	1	30.00
Eye Protection (Goggles)	each	5	5.00
½ Face Respirators	each	5	25.00
PAPRs (Respirators)	each	2	700.00
Respirator Bags	box	1	4.50
Respirator Cartridges	box of 10	1	50.00
Respirator Cleaner	gallon	1	21.00
Resp. Disinfect. Wipes	pack	2	12.00
Fit Test Tent	each	1	50.00
Smoke Tubes	box	1	35.00

## B. Recommended Monitoring and Workplace Assessment Equipment:

<u>Unit</u>	Quantity	Approximate Unit Cost
5/kit	1	2,000.00
each	3	600.00
each	1	100.00
each	1	15.00
roll	2	13.50
box	2	60.00
each	1	50.00
	5/kit each each each roll box	5/kit 1 each 3 each 1 each 1 roll 2 box 2

## C. Recommended General Supplies:

Category/Equipment	<u>Unit</u>	Quantity	Approximate Unit Cost
Aluminum Tape	roll	7	6.00
Duct Tape	case	1	92.00
Camera	each	2	100.00
Film	roll .	10	3.50
Baby Wipes	tub	7	3.00
Buckets	each	5	9.00
Disposal Bags (Asbestos)	case of 75	1	81.00
Glove Bags	case of 25	1	180.00
Gallon Storage Bags	carton of 5		2.00
Plastic Sheeting(12x100)	roll	1	37.00
Spray Bottle (24 oz)	each	5	2.20
Spray Bottle (32 oz)	each	5	2.50
Wetting Agent (Surfactant)	5 gal		115.00
Encapsulant	5 gal	1	134.00
Coin Tubes	case	1	60.00
Measuring Devices	each	5	10.00
Print-Out Labels	box	2	3.00
Fire Door Labels	box	1	112.86
Spackling Compound	tub	5	5.00
Utility Knife	each	5	3.55
Chisels	each	5	6.00
Pliers	each	5	4.00
Screwdrivers	each	5	1.50
Hammers	each	5 5	6.00
Electrical Tape	roll	5	1.69
Flashlight	each	5	10.00
Batteries	each	10	1.50
Paper Towels	roll	5	1.00
Putty Knives	each	5	1.50
Clipboards	each	5	14.40
Pens	dozen	1	10.00
Highlighter Pens	pack	5	4.00
Forms	сору	50	0.10
Extension Cords	each	5	25.00
Multi-Plug Adapters	each	5	4.00

Category/Equipment	<u>Unit</u>	Quantity	Approximate Unit Cost	
HEPA Vacuum (6 gallon) Ladders, 8-foot step	each each	2 2	900.00 61.00	
Scaffolding	Renting is more cost effective			

## D. Recommended Containment Construction Equipment:

Category/Equipment	<u>Unit</u>	Quantity	Approximate Unit Cost	
HEPA Exhaust Units	each	1	2800.00	
Pre-filters	box	1	50.00	
Secondary Filters	each	2	130.00	
Ground Fault Interrupter			130.00	
Receptacle	each	5	15.00	
Exhaust Ducting	length	2	45.00	
Manometer	each	2	800.00	
Velometer	each	1	700.00	
Smoke Tubes	box	2	30.00	
6-mil Polyethylene Sheeting	roll	2	37.00	
2" x 4" Boards	8 foot	5	2.00	
4' x 8' Plywood Sheeting	sheet	5	16.00	
Portable Shower Facility with	ı			
Drain Filters	each	1	900.00	
Barricade Tape	roll	5	15.00	
Appropriate Asbestos Warnin	ng		15.00	
Signs	pack	1	36.00	
Water Hoses	each	5	20.00	
Submersible Water Pump and				
3 Stage Water Filters	each	1	500.00	
10 Gallon Water Heater	each	1	150.00	
Shower Fixtures	each	2	15.00	
Pan	each	3	5.00	
Stanchions or Barricades	each	5	25.00	
Absorbent Material	bale	3	12.00	
Spray Adhesive	case	1	30.00	

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#### **OPERATIONS & MAINTENANCE PROGRAM**

1. Introduction: Identification and assessment of Asbestos Containing Materials (ACMs) is the first step in preventing occupant exposure to asbestos fibers. While damaged or deteriorated ACM should be repaired or removed from a facility, a full scale abatement is usually not practical or cost effective. The U.S. EPA recommends the establishment of an in-place Operations and Maintenance (O&M)Program whenever asbestos is discovered. A conscientious in-place O&M Program provides the means to greatly reduce the potential for fiber releases, particularly when the materials are not significantly damaged and are not likely to be disturbed. Day-to-day operation of the building should be conducted in a manner that will prevent or minimize the release of asbestos fibers into the air. Application of specialized work procedures and controls will ensure that when asbestos fibers are released, either accidentally or intentionally, proper management and clean up procedures are promptly implemented.

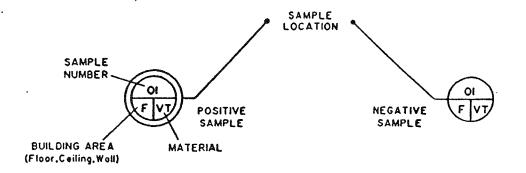
The O&M Program is a set of specific procedures and practices applied to building cleaning, maintenance, renovation and general operation to maintain the building as free of asbestos contamination as possible. The O&M Program draws heavily on information generated during the building surveys and is a key component of the management plan. The O&M Program should remain in effect until all ACM is removed from the facility.

A major concern of the EPA and other Federal, State, and local agencies which regulate asbestos is to ensure proper worker training and protection. These topics are also addressed under this O&M Program. Additionally, an in-place O&M Program includes notification to building occupants of the existence of asbestos in their buildings, periodic surveillance of the material, and proper record keeping.

While the management costs of all the above activities will depend upon the amount, condition, and location of the materials, such a program need not be expensive. In many instances, an in-place O&M Program may be all that is necessary to control the release of asbestos fibers, until the ACM in a building is scheduled for removal because of renovation or demolition activities. It provides a sound alternative to a costly large scale abatement project.

This O&M Program has been prepared specifically for use at Fort Belvoir and represents a practical approach to managing ACMs in place.

# LEGEND TO BUILDING SKETCHES



	EXTERIOR WALL	\$1 40 P 45 W 45	MEZZANINE/LOFT
	INTERIOR WALL	٤_	PIPE ELBOW
	MINDOM	•	PIPE RISER
Quite-en-directed-excelled	DOOR	Δ	FIRE DOOR
FENCE	MISCELLANEOUS	<b>A</b>	FIRE DOOR NO ACM
	PIPE	<b>XXXXXX</b>	ASBESTOS CONTAINED
	DUCT	<b>~~</b>	ASBESTOS CONTAINED IN FLASHING
	ASBESTOS CONTAINED IN FLOOR	PIH	POTENTIAL IMMEDIATE HAZARD
	ASBESTOS CONTAINED IN CEILING	<del>-W-</del>	FLEXIBLE DUCT CONNECTOR
		<b>-⊠-</b>	FLEXIBLE DUCT CONNECTOR NO ACM
	ASBESTOS CONTAINED IN FLOOR AND CEILING	<del></del>	LIGHT FIXTURE PAPER
		NA	NO ACCESS
	ASBESTOS CONTAINED IN DEBRIS	NAC	NO ACCESS ABOVE CEILING
	ASBESTOS CONTAINED IN ROOF	NAUC	NO ACCESS UNDER CARPET

			Abbrev	/iation Key -		<del></del>
BUILDING AREAS				HOMOGENEOUS AREAS		
A B C	Attic Basement Ceiling Door	M R S	Miscellaneous Roof Crawl Space Wall	M S T	Miscellaneous Surfacing Thermal System	
E	Exterior Floor	X	Undetermined Mezzanine	OTHER		
	Insulation				No Access No Access Above Ceiling C No Access Under Carpet	
BUILDIN	G MATERIALS	Contract of the Contract of th				
AF	Access Floori	ng		PC	Pipe Covering	
AP	Acoustic Panel			PD	Pad	
AS	Asphalt Shingle			PG	Peg Board	
AT	Acoustic Tile			PJ	Pipe Joint	
BI	Blown-In Insulation			PL	Plaster	
BJ	Boiler Jacket			PM	Patching Material	
BU	Built-Up Roof			PR	Paper	
BR	Brick			PS	Spray-On Plaster	
CB	Concrete Block			PT	Paint	
CD	Classroom Div	vider		PW	Pipe Wrap	ı
CG	Coating			QT	Quarry Tile	
CN	Fire Curtain			RO	Rope Insulation	
CO	Concrete			RR	Rolled Roofing	
CP	Corrugated Paper			RS	Resilient Sheet	l
CT	Carpet			SF	Spray-On Fireproofing	
DE	Debris			SI	Spray-On Insulation	- 1
DT	Duct			SK	Stack Breeching	
EA	Each			SL	Slate	
EI	Electrical Insul	lator		SO	Spray-On Finish Material	
ER	Earth			SP	Straight Pipe	
FB	Fiber Board			ST	Stair Tread	
FC	Flex Connector			TA	Tar	- 1
FD	Fire Door			TB	Transite Board	
FH	Fire Hose			TD	Transite Duct	
FL FP	Flashing			TK	Tank	
FR	Fixture Paper			TP	Transite Pipe	
FS	Fire Brick			TR	Tar Paper	
GA	Firestop			TW	Tar Wrap	
GB	Gasket Gypsum Board			UL	Underlayment	
GM	Glue/Mastic	•		VB	Vinyl Base	
11	Incinerator Insulation			VE VS	Vinyl Exterior	
IN	Insulation			VS VT	Vinyl Sheet	
IP	Insulation Panels			VW.	Vinyl Tile Vinyl Wall Covering	
IW	Insulation Wra			WD	Wood	
JF	Joint Filler			WP	Wood Paneling	
MA	Mastic			WR	Wrap	
PB ·	Particle/Composition Board			ХХ	Undetermined	

2. Objectives of an Operation and Maintenance Program: There are three primary objectives of the O&M Program: 1) to clean up existing contamination; 2) to minimize future fiber release by controlling access to ACM; and 3) to maintain ACM in good condition until it is eventually removed. This program will serve as the means by which Fort Belvoir can track known ACMs and prevent or respond quickly to unintentional fiber releases.

Since by law all but certain specified categories of ACM must be removed from buildings before demolition, the O&M Program is not a permanent solution. It is implemented as part of an overall asbestos management plan that has as its goal the elimination of asbestos exposure within the facility. The O&M Program likewise is not a means by which full-scale asbestos abatement is accomplished. Rather, intentional disruption of ACM should be limited to repair or removal of small areas of significantly damaged ACM, or small areas where removal is necessary to facilitate maintenance or small renovation activities. Large scale abatement projects that require extensive planning and technical expertise are beyond the scope of most O&M Programs. On the other hand, limited encapsulation and enclosure may be used to enhance an O&M Program, e.g., by reducing the likelihood for contact with this ACM. CFR 1926.1101 defines the following classes of asbestos work:

- Class I asbestos work means activities involving the removal of thermal system insulation (TSI) and surfacing ACM and Presumed Asbestos Containing Materials (PACM).
- Class II asbestos work means activities involving the removal of ACM which is not TSI or surfacing material. This includes, but is not limited to, the removal of asbestos containing wallboard, floor tile and sheeting, roofing and siding shingles, and construction mastic.
- Class III asbestos work means repair and maintenance operations, where ACM, including TSI and surfacing material, is likely to be disturbed.
- Class IV asbestos work means maintenance and custodial activities during which employees contact ACM and PACM and activities to clean up waste and debris containing ACM and PACM.

Key to a successful O&M Program is the appointment of an Asbestos Program Manager. This position serves as the focal point for implementation of the program from standard procedures to emergency response actions.

- **3. Elements of the O&M Program:** The specific features of this O&M Program have been designed to match the requirements and resources of Fort Belvoir. However, as are most O&M Programs, it is built on the following elements:
  - Asbestos Program Manager
  - Notification and Labeling
  - Training (on several levels)
  - Medical Surveillance and Employee Protection Programs
  - Specialized Cleaning Procedures
  - Maintenance/Renovation Permit System
  - Special Work Practices
  - Emergency Response Procedures
  - Periodic ACM Surveillance
  - Record Keeping
- 4. Asbestos Program Manager: The Asbestos Program Manager should be a part of the Directorate of Public Works, Environmental and Natural Resources Division. The individual appointed to this position should have the authority to implement the O&M Program installation-wide. The program manager should be qualified by training and experience to coordinate the O&M Program with facility maintenance, repair, renovation and demolition activities. This individual should receive formal training dealing with asbestos issues and work practices. An EPA approved Inspector/Management Planner or Contractor/ Supervisor course is recommended.

The Asbestos Program Manager will be responsible for all aspects of the O&M Program including notification, training, employee protection, maintenance and renovation activities, work practices, response actions, and record keeping. The ultimate success of the O&M Program is contingent upon the commitment of key personnel to the program and to its effective implementation.

5. Notification and Labeling: Once the presence of asbestos-containing materials has been established in a facility, a notification and labeling program should be initiated. The notification and labeling program serves two purposes: (1) it alerts affected parties to a potential hazard in the building; and (2) it provides basic information on avoiding the hazard. Building occupants, employees and others who are aware of the presence of ACM are less likely to disturb the material and cause fiber release.

Building occupants in each building in which ACM has been identified should be notified of its presence, its location and its condition in order to reduce the possibility of inadvertent disturbance of the material. This awareness will encourage employees to be cautious when working near asbestos such as in storage rooms where supplies may be piled near ACM pipe elbows.

Notification of building occupants and other affected individuals can be accomplished several ways. Seven techniques applicable at Fort Belvoir are:

- Chain of Command
- Environmental Quality Control Committee (EQCC)
- Building Monitors
- Articles in the installation newspaper
- Distribution of notices
- Holding awareness or informational seminars
- Contracting Officer's Representatives (COR)

The distribution of notices in on-post publications is an effective means of alerting building occupants about the presence of asbestos. Memos or letters can be tailored to specific buildings or organizations, and verification that notification was received is easily accomplished. For example, in a large multi-tenant building, the asbestos program manager can send detailed reports to the management of individual organizations, while distributing similar, condensed informational memos to the building occupants.

Awareness or informational seminars can be designed to follow written notification. They serve to expand on relevant information while allowing attendants to raise questions. These seminars may be given in conjunction with other training programs or assemblies and may be designed within a one-to two-hour schedule.

The Maintenance/Renovation Permit System will identify work which has a potential for disturbing ACM. All contractors working in Fort Belvoir facilities are to be notified of the presence of asbestos at their assigned work sites. They shall have ready access to ACM information through their Contracting Officer's Representative (COR).

Regardless of the notification format chosen, affected individuals should be provided with the following information:

- Name, organization symbol and telephone number of the Asbestos Program Manager
- What asbestos is and how it is typically used
- Health effects associated with exposure
- What type(s) of ACM are present in the facility
- The exact location(s) of these materials
- How individuals can avoid disturbing ACM
- How to recognize and report damage
- How custodial and maintenance personnel are dealing with materials to prevent fiber release
- What will be done periodically and over the long run to protect the health and safety of building occupants

Labeling, as opposed to notification, is not intended as general information. It serves as a final line of defense to prevent unprotected individuals from disturbing ACM, or entering areas where repair or renovation activities involving ACM are underway. Labeling is usually in the form of posted signs or notices, which are either directly attached to ACM or at entrances to areas where ACM is prevalent (e.g., boiler rooms or abatement projects).

Fort Belvoir should use the AHERA model for labeling and identification of ACM. Under AHERA, the posting of warning signs is mandatory adjacent to any friable and non-friable ACM and suspected ACM in routine maintenance areas (such as boiler rooms) in each building. In addition, ACM which is easily accessible to the general public, such as a pipe riser in an office area or corridor, should be identified with a caution label to prevent inadvertent disturbance of the material.

Warning signs used in conjunction with small renovation or repair that involves the disruption of ACM should be posted at entrances and around the perimeter of the project and in accordance with the OSHA Asbestos Standards for the Construction Industry (29 CFR 1926.58). Signs used to demarcate the regulated areas should contain the following information:

DANGER
ASBESTOS
CANCER AND LUNG DISEASE HAZARD
AUTHORIZED PERSONNEL ONLY
RESPIRATORS AND PROTECTIVE CLOTHING
ARE REQUIRED IN THIS AREA

Labels affixed to asbestos products where ACM is prevalent, or contaminated waste according to 29 CFR 1926.58, shall contain the following information:

DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND LUNG DISEASE HAZARD

Specific warning sign language in areas where no regulatory requirement prevails is a matter of extreme importance. A warning that is vaguely worded may not effectively express the potential danger involved. Warning or danger signs that come across too alarmist may create undue concern by building occupants. Also, the manner in which a warning sign is worded can affect the owner's liability. Labels with the following wording are appropriate for non-regulated areas where identification is needed to prevent inadvertent disturbance of ACM.

CAUTION: ASBESTOS HAZARD DO NOT DISTURB WITHOUT PROPER TRAINING AND EQUIPMENT

Signs and labels for all of the above applications are commercially available.

6. Training: The Fort Belvoir O&M Program requires that each custodial, maintenance, or other worker who, in the course of their routine duties, may come into contact with asbestos containing materials, receive training to prevent the inadvertent release of asbestos fibers. The objective of the training is to establish proper awareness and understanding of work practices based on the duties of the various employees. Training should generally include information on the health effects of asbestos as well as the recognition, proper handling and maintenance of ACM so as not to inadvertently disturb the material which could result in the release of asbestos fibers into the building. To meet these varying requirements, three levels of training are recommended for government or contractor personnel. The level of training to be provided is determined by the job duties of the employee and the likelihood that the employee will come in contact with asbestos containing materials in the routine course of their duties.

Since most custodial and maintenance work at Fort Belvoir is accomplished by outside contractors, the requirement for asbestos training must be included in the scope of services for each contractor. Each contractor should be familiar with the O&M Program and have the training and experience to work around ACM. Each contractor should provide written documentation that the training has been accomplished to the Asbestos Program Manager. A suggested Standing Operating Procedure (SOP) for all asbestos related O&M work is at TAB G of this section.

Recommended levels of training consist of the following:

- Level 1: General Service/Custodial Workers. Awareness training is recommended for general service and custodial personnel involved in cleaning and other simple maintenance tasks where asbestos containing material may be accidentally disturbed. The training should include all the information outlined in the section on notification. The focus of the training should be on how to avoid disturbing ACM. Level 1 training should last a minimum of two hours. It may be taught by the Asbestos Program Manager, or another individual with at least 32-hours training in an EPA accredited asbestos course.
- Level 2: Specialized Service/Custodial Workers. One of the main objectives of the O&M Program is to clean the facility of existing asbestos contamination. Specialized service and custodial personnel who conduct cleaning or other activities that result in the disturbance of ACM must receive the two-hours of general awareness training plus 14-hours of additional instruction. Information to be presented in this training session should include proper cleaning techniques (HEPA vacuuming and wet methods), appropriate practices for handling ACM, proper disposal methods, and use of respirators and other protective equipment, including hands-on training. The Level 2 training should be taught by an EPA accredited training agency or, taught in-house by the Asbestos Program Manager or another individual with at least 32-hours training in an EPA certified asbestos course.
- Level 3: Maintenance and Asbestos Workers: If routine or even infrequent maintenance involves the possibility of significant disturbance of ACM, workers should be involved in a more extensive training program. Maintenance personnel, who in the course of their duties will perform small-scale short duration removal, repair, encapsulation, or cleaning of ACM debris, should receive the EPA accredited

Asbestos Workers Course. This includes as a minimum, a three-day training course and an annual one-day refresher course taught by an EPA accredited training agency. Training should include local isolation of HVAC systems, isolation of the work area from non-work area (through the use of barriers and warning signs, etc.), HEPA vacuuming, the use of methods to reduce fiber release, HEPA and glove bag techniques for working around pipe insulation, clean-up and decontamination procedures, and ACM disposal procedures. The course should provide hands on training in these areas.

Personnel who receive Level 2 and 3 training as well as anyone required to wear a respirator, must be included in a respiratory protection and medical surveillance program.

In addition to the Asbestos Program Manager, formal EPA certified training is required for people with the following responsibilities:

**Abatement Project Designer** 

EPA Project Designers Course

Three-day Initial Training Annual One-Day Refresher Course

Project Supervisors
and recommended for
Contracting Officer's Representative

EPA Contractor/Supervisor Course Four-day Initial Training and Annual One-day Refresher Course

Inspector

EPA Inspector Course Three-day Initial Training Annual One-day Refresher Course

Management Planner

EPA Management Planner Course Three-day Inspector Initial Training Two-day Management Planner Initial Training Annual One-day Refresher Course

7. Medical Surveillance and Employee Protection Programs: According to the OSHA Asbestos Standard for the Construction Industry (29 CFR 1926.1101), the OSHA Asbestos Standard for General Industry (29 CFR 1910.1001) and the U.S. EPA Worker Protection Rule (40 CFR 763.120), any employee who, for a combined total of 30 or more days per year are engaged in Class I,II, and III work, or are exposed at or above the permissible exposure limit (PEL) - 0.1 f/cc of asbestos in an 8-hour time weighted average (TWA) - or the excursion limit - 1.0 f/cc over a sampling period of 30-minutes, or who wears a negative pressure respirator as part of his job must be included in a respiratory protection program. In the Fort Belvoir O&M Program, the use of negative pressure respirators will dictate involvement in the medical surveillance program for most specialized service/custodial and maintenance workers. Although fiber levels may not be high enough to require a respiratory protection program, establishing such a program is recommended.

The purpose of the medical surveillance program is to establish an employee's fitness to wear a respirator, and to detect any changes in the gastrointestinal and cardiopulmonary systems as a result of working in asbestos contaminated areas. Such changes may indicate the onset of an asbestos-related disease.

The main requirements of the medical surveillance program are initial and periodic examinations. The initial examination can be omitted if the employee had an equivalent exam within the last twelvemenths. Periodic examinations are required at least annually, and must be performed before the employee is issued a negative pressure respirator.

Each examination must include, at a minimum:

- A medical and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems.
- Completion of the mandatory medical questionnaires. There is one each for the initial and periodic examinations. These questionnaires also include sections on work history. Sample questionnaires are included at **TAB H** of this section.
- A physical examination, with emphasis on the cardiovascular and gastrointestinal systems; and
- A pulmonary function test, which includes the forced vital capacity (FVC) and the forced expiratory volume (FEV) in one-second.

The examining physician may also require other tests as part of the medical examination. The chest x-ray is now optional and is administered at the discretion of the physician. However it is recommended that an initial chest x-ray be used in order to establish baseline conditions for the employee.

Following the examination, the physician must provide the employer with the following:

- A written opinion as to whether the employee has any detected medical conditions that would place the employee at increased risk of health impairment from exposure to asbestos.
- Any recommended limitations on the employee or on the use of personal protective equipment, such as respirators.
- A statement that the employee has been informed by the physician of the results of the medical examination, and of any medical conditions that may result from asbestos exposure.

The physician is not to reveal in the written opinion given to the employer any specific findings unrelated to asbestos exposure. Also, the employer must provide a copy of the physician's written statement to the employee within 30-days of receipt.

The employer must provide the examining physician with the following:

- A copy of the OSHA Asbestos Standard.
- A description of the employee's duties as they relate to asbestos.
- The employee's actual or anticipated level of exposure.
- A description of any personal protective and respiratory equipment used or to be used.
- Information from previous medical examinations of the employee that is not otherwise available to the examining physician.

Finally, the employer must maintain medical records for at least 30-years following termination of employment. If the employer goes out of business without a successor, OSHA must be notified at least 90-days prior to termination of business and provide for transfer of records to the secretary of OSHA, if requested.

The elements of a comprehensive Respiratory Protection Program and Individual User's Respiratory Protection SOP are included at **TAB I** of this section.

8. Specialized Cleaning Procedures: Cleaning up existing asbestos contamination within a facility is one of the primary objectives of the O&M Program. Dry brooms, mops, dust cloths and standard vacuum cleaners simply re-suspend asbestos fibers into the air. Therefore, it is essential that specialized cleaning procedures be implemented.

Where asbestos contamination has been identified, restrict access to the area and conduct a thorough initial cleaning by specially trained and properly equipped custodial workers. This action is to be taken as soon as possible and before the initiation of any response action. These workers should be equipped with high efficiency air purifying(HEPA) respirators, at a minimum. A combination of wet mopping/wiping and HEPA vacuuming should be used to clean all surfaces within the area. Irregular surfaces, such as curtains, books, furniture and carpeting should be cleaned using HEPA-equipped vacuum cleaners. Many manufacturers offer several "nozzles" to make HEPA vacuuming of irregular surfaces less difficult. In some cases, carpeting may be cleaned using steam cleaners. When this method is used, care must be taken to ensure that the liquid waste generated during steam cleaning is properly filtered and disposed of as asbestos contaminated waste. In cases of severe contamination, the Asbestos Program Manager may determine that the carpet or other material is to be removed and disposed of as contaminated waste.

Other surfaces, such as walls, non-carpeted floors, light fixtures, equipment housings, the exterior of air handling ducts, and file cabinets should be cleaned using mops and/or dust cloths and rags that are wetted with amended water. Amended water is a mixture of water and a non-sudsing surfactant. A dust suppressant should also be used on mops.

9. Maintenance/Renovation Permit System: Minimizing inadvertent disruption of ACM during maintenance and renovation operations is often one of the most difficult tasks faced by the Asbestos Program Manager. The initiation of a permit system, where all work orders or requests are funnelled through the Asbestos Program Manager, is a simple yet effective way of controlling disruption of ACM during these activities.

In the permit system, all requests for maintenance/renovation activities are routed through the Asbestos Program Manager prior to the issuance of a work order to proceed. An example permit request form is included at **Tab J** of this section.

The Asbestos Program Manager then checks the building's asbestos records (survey report or computerized database) for information about the presence of ACM where work is to be performed. The manager should also physically inspect the area in question to ensure records reflect actual conditions. If no asbestos is present, the permit is marked appropriately and the planned actions can proceed. If ACM is found to be present in the area, the Asbestos Program Manager will identify the appropriate response actions to be taken. Properly trained maintenance/renovation workers will be assigned or contracted to complete the appropriate response actions with the ACM.

In worst-case situations (e.g., large amounts of ACM), non-critical maintenance/renovation work should be deferred until the ACM in the area can be abated by an abatement contractor. When asbestos response actions are complete, the Asbestos Program Manager shall reinspect the work area. If the response actions are approved, the permit shall be marked appropriately and the project allowed to proceed.

10. EPA/State Notification: EPA notification requirements for asbestos work are detailed in 40 CFR 61, National Emission Standards for Hazardous Air Pollutants (NESHAP), Subpart M, Asbestos. The notification requirement is determined by the amount of asbestos-containing material and the nature of the activity. Additional notification requirements are proscribed by Virginia and Fairfax County. The Asbestos Program Manager shall refer to the applicable Federal, State, and local regulations to determine the notification requirements for each abatement action.

EPA notification is required for all demolition projects which contain regulated ACMs. Notification is required for renovation projects that exceed the NESHAP threshold for regulated ACMs of 260-linear feet on pipes, or 160-square feet on other facility components. Where the amount of ACM cannot be measured before removal, the threshold is 35-cubic feet of ACM. The EPA must also be notified of changes of start dates or changes in the amount of asbestos by twenty percent or more. Where planned renovations will involve individual non-scheduled asbestos abatement actions which will, in total, exceed the NESHAP threshold amounts, EPA notification is required ten-days prior to the beginning of the calendar year of the planned renovations.

Notifications for emergency work or work required as a result of a demolition ordered by a State or local government agency shall be as early as possible but not later than one-day after work has begun.

The notifications must be postmarked or delivered at least ten- working days before asbestos removal or other abatement actions begin. EPA notifications shall be sent to each of the following:

U.S. Environmental Protection Agency Region 3, Air Enforcement Section (38W12) 841 Chestnut Street Philadelphia, Pennsylvania 19017

Asbestos Program Support Technician Department of Labor & Industry Powers-Taylor Building 13 South Thirteenth St. Richmond, VA 23219

- 11. Special Work Practices: Special work practices are designed to minimize and/or contain asbestos fibers during routine maintenance and custodial activities. Workers shall avoid certain activities, such as sawing, sanding or grinding ACM. When working around asbestos materials, the ACM must be protected from damage. Maintenance and custodial activities can be divided into three categories with regard to their potential for disturbing ACM:
  - Those which are unlikely to involve any direct disturbance of ACM; for example, regular vacuuming of carpeting which has been installed over ACM floor tile.
  - Those which may cause accidental disturbance of ACM; for example, maintenance activities adjacent to friable ACM.
  - Those which involve small scale manipulation or disturbance of ACM; for example, small scale repair and/or glove bag removal of damaged pipe elbow insulation.
- 12. Special Work Practices For Maintenance Activities: Normal maintenance activities can disturb ACM and raise levels of airborne asbestos. Maintenance workers are to be cautioned against conducting any maintenance work in a manner that may disturb ACM. This O&M program includes provisions for the various types of ACM that have been identified at Fort Belvoir. O&M procedures for specific types or ACM materials is at TAB K of this section.

The nature and extent of special work practices are tailored to reflect the likelihood that the ACM will be disturbed and that fibers will be released. The following sections on surfacing materials, thermal system insulation, and miscellaneous ACM describe these work practices in detail. For each material, three categories of potential disturbance are defined:

- Contact with the ACM is very unlikely
- Accidental disturbance is possible
- Disturbance of ACM intended or likely. Small amounts of ACM (less than three-square feet or three-linear feet) and large amounts will be discussed.

13. Surfacing Materials: Maintenance activities affecting surfacing materials generally involve penetrations through plaster walls and ceilings, or modifications to a structure coated with ACM fireproofing.

Contact with ACM Unlikely: In some buildings with ACM, many routine maintenance activities can be conducted without contacting the ACM. For example, changing light bulbs in a fixture on a ceiling with asbestos-containing acoustical plaster can usually be performed without jarring the fixture or otherwise disturbing the ACM. The top of the fixture should have been wet-cleaned previously to remove settled fibers. In these situations, few precautions other than normal care are needed. The only precaution is to assure the availability of respirators and a HEPA vacuum if needed. These do not have to be taken to the site, but shall be available at a known location in the building. Where maintenance is performed in parts of the building free of ACM, no special precautions are usually necessary. An exception would be work causing vibrations at a distant location where ACM may be present.

Accidental Disturbance of ACM Possible: Routine maintenance and repair includes work on light fixtures, plumbing fixtures and pipes, air registers, HVAC ducts, and other accessible parts of building utility systems. Where these fixtures or system parts are near friable ACM, maintenance work may unintentionally disturb the ACM and release asbestos fibers. For example, maintenance work on ventilation ducts in an air-handling room where asbestos fire-proofing is present only on structural beams could probably be conducted without contacting the ACM. However, the fire-proofing could be disturbed accidentally during the course of the work.

**Small Disturbances:** The following precautions and procedures are appropriate for maintenance activities which involve small scale (less than three-square feet) removal of surfacing ACM or when accidental disturbance of ACM (or dust and debris containing asbestos fibers) is possible:

- Approval shall be obtained from the Asbestos Program Manager before beginning work. The Asbestos Program Manager or supervisor should make an initial visit to the work site.
- The work should be scheduled after normal working hours (nights or weekends), or access to the work area should be controlled: doors should be locked from the inside and signs posted to prevent unauthorized persons from entering the work area (e.g., "MAINTENANCE WORK IN PROGRESS, DO NOT ENTER", or, if asbestos levels are, or are anticipated to be high enough to trigger the OSHA Rule (the PEL or higher), "DANGER-ASBESTOS: CANCER AND LUNG DISEASE HAZARD: AUTHORIZED PERSONNEL ONLY: RESPIRATORS AND PROTECTIVE CLOTHING ARE REQUIRED IN THIS AREA"). Keep emergency exits operational.

- The air-handling system is to be cut off or temporarily modified to prevent the distribution of any released fibers to areas outside the work site.
- Workers are to wear at least a half-face negative pressure air-purifying respirator with HEPA filters and protective clothing including a body suit and hood.
- A rectangular enclosure constructed of six-mil plastic on a frame can be positioned underneath the maintenance area to inhibit the spread of fibers from fallen ACM. (Mobile enclosures of this type are available commercially.) Alternatively, six-mil polyethylene plastic drop cloth should be placed underneath the location of the maintenance work, extending at least ten-feet beyond all sides of the work site.
- The ACM in the vicinity of the maintenance work shall be misted lightly with amended water. Use a mister that produces a very fine spray. Be sure that the electrical system is shut off before spraying around any electrical conduits or fixtures.
- After the maintenance work is completed, the fixture, register, or other component, and all tools, ladders and other equipment shall be HEPA-vacuumed or wiped with a damp cloth.
- If any debris is apparent on the floor or elsewhere, it shall be HEPA-vacuumed.
- The plastic drop cloth (or enclosure) shall be wet wiped, carefully folded, and discarded as asbestos waste.
- All cloths, vacuum bags/filters, and other disposable materials shall be discarded in sealed and labeled plastic bags as asbestos waste.
- Workers shall vacuum their disposable suits and remove and dispose of them before leaving the work site. As an alternative, workers may put on a second clean disposable suit, proceed to a remote shower room, remove both suits, shower with their respirators on, and clean their respirators while in the shower.

Disturbance of ACM Intended or Likely: Some maintenance and repair activities will, unavoidably disturb the ACM. For example, installing new sprinkler or piping systems will necessitate hanging pipes from structural members or the ceiling. If the beams or ceilings are insulated with ACM, the ACM will be scraped away to install hangers. Likewise, pulling cables or wires through spaces with ACM or ACM debris is likely to dislodge pieces of the

ACM or disturb ACM debris and dust. Furthermore, anytime tiles are removed to enter the space above a suspended ceiling, settled dust on top of the tiles will be re-suspended. If the beams or decking above the ceiling are covered with ACM, the dust is likely to contain asbestos fibers. All of these examples involve disturbance of ACM or asbestos dust and debris, and will likely result in elevated levels of airborne asbestos fibers.

**Small Disturbances:** The following procedures are appropriate for maintenance activities which involve small-scale (less than three-square feet) removal of surfacing ACM or when disturbance of ACM dust and debris or unintentional contact with the ACM is likely.

- Approval shall be obtained from the Asbestos Program Manager before beginning work, and the work should be supervised.
- The work shall be scheduled after normal working hours (nights or weekends), if possible, or access to the work area should be controlled: unauthorized persons from entering the work ares (e.g., "MAINTENANCE WORK IN PROGRESS, DO NOT ENTER", or, if the asbestos levels are high enough to trigger the OSHA Rule (the PEL or higher), "DANGER-ASBESTOS: CANCER AND LUNG DISEASE HAZARD: AUTHORIZED PERSONNEL ONLY: RESPIRATORS AND PROTECTIVE CLOTHING ARE REQUIRED IN THIS AREA"). Note, emergency exits must remain in operation.
- The air-handling system is to be cut off or temporarily modified to prevent the distribution of any released fibers to areas outside the work site.
- Workers are to wear at least a half-face negative pressure air-purifying respirator with HEPA filters and protective clothing including a body suit and hood.
- A rectangular enclosure constructed of six-mil plastic on a frame can be positioned underneath the maintenance area to inhibit the spread of fibers from fallen ACM. (Mobile enclosures of this type are available commercially.) Alternatively, six-mil polyethylene plastic drop cloth should be placed underneath the location of the maintenance work, extending at least ten-feet beyond all sides of the work site.
- If entry to the space above a suspended ceiling is necessary, the entry tile(s) should be removed carefully with as little jarring as possible. The air above the opening, the top of the removed tile, all tiles surrounding the opening, and the ACM likely to be disturbed should be misted with amended water. Use a mister with a very fine spray. A thorough misting in the air helps fibers to settle more quickly. Cleaning ceiling tiles with a HEPA vacuum cleaner is

also effective as long as care is taken not to vibrate tiles and disturb the ACM.

- Selected workers must wear personal air sampling equipment as required by OSHA unless previous experience with the same ACM and similar operations indicated that fiber levels are likely to be less than the PEL.
- During the course of the work, any ACM which is removed shall be collected by the HEPA-vacuum. This is best accomplished by placing the vacuum hose just below the ACM being removed.
- Upon completion of the work, any visible debris on the top of the suspended ceiling, on the drop cloth, on the floor, or anywhere else shall be collected by cleaning with a HEPA vacuum.
- All equipment and tools are to be wiped with a damp cloth or HEPA vacuumed.
- The plastic sheet shall be wet wiped, folded, and discarded as asbestos waste.
- All debris, cloths, and vacuum bags/filters are to be discarded in sealed and labeled plastic bags as asbestos waste.
- Workers shall vacuum their disposable suits and remove and dispose of them before leaving the work site. As an alternative, workers may put on a second clean disposable suit, proceed to a remote shower room, remove both suits, shower with their respirators on, and clean their respirators while in the shower.

Large Disturbances: Any maintenance work which involves removal of three-or more square feet of surfacing material (or three-linear feet of thermal system insulation) shall be considered a large-scale disturbance of ACM. Moreover, if the maintenance work is part of general building renovation, NESHAPs requires prior removal of ACM if more than 160-square feet of friable surfacing ACM, 260-linear feet of ACM thermal system insulation, or 35-cubic feet of ACM would be disturbed or made inaccessible for subsequent removal as a result of the work. Even if NESHAPs does not strictly apply, the Asbestos Program Manager should consider removing all ACM from that part of the building where the maintenance or renovation work is planned. Typically, an outside licensed abatement contractor would be hired for the removal project before the work would begin. If this approach is not deemed necessary or desirable, the maintenance workers should be fully trained in asbestos removal and the work should proceed as follows:

All of the procedures for asbestos removal shall be followed--construction of containment barriers and decontamination facilities; use of a negative pressure ventilation system; use of protective clothing and "type C" respirators by workers; proper disposal of asbestos debris; and proper clean-up of the work

site followed by air testing. (See Chapter 5 and 6 of the EPA's <u>Guidance for Controlling Asbestos-Containing Materials in Buildings</u>, the "Purple Book", and the OSHA Rule for the construction industry for a detailed discussion of these steps.) Personnel air monitoring is also required by OSHA unless <u>SCBA</u> or "type C" respirators are used.

- Once the work site has been adequately isolated and all precautionary measures have been taken, the maintenance work may begin. If the work involves cutting, drilling, grinding, or sanding the ACM, special tools equipped with HEPA vacuum attachments must be used (OSHA requirement). Where the ACM is simply scraped off the substrate, the hose from a HEPA vacuum cleaner shall be placed just below the removal site to catch the ACM. Upon completion of the work, the vacuum bags and filters shall be discarded as asbestos waste.
- Prior to the removal of containment barriers, the air shall be tested for asbestos fibers. Testing should follow guidelines in Chapter 6 of the Purple Book and Chapter 4 of the Silver Book. Generally, the air is to be sampled at the specified number of locations and analyzed by either phase contrast microscopy (PCM) or transmission electron microscopy (TEM). The type of analysis selected will depend on the requirements for a given project. The Asbestos Program Manager shall make the final approval on the type of analysis used.
- Where the ACM was disturbed as part of the maintenance activity, it shall be repaired with non-asbestos plaster or spackling compound or sprayed/painted with an encapsulant or latex paint (see section 5.1.3 of the EPA Purple Book for specifications). This shall be done before final cleanup of the work site.
- 14. Thermal System Insulation: Maintenance activities affecting asbestos-containing thermal system insulation generally involve plumbing-type repairs, or repairs to the heating, ventilation and air conditioning (HVAC) system. Frequently, the ACM must be removed to provide access to the valve, flange, duct, or related system part needing maintenance.

Contact With ACM Unlikely: Maintenance activities or repairs which can be performed without contacting or disturbing thermal ACM require little more than normal care and good workmanship. For example, valves which are either bare or covered with non-asbestos insulation can be repacked or repaired without disturbing asbestos insulation on nearby pipes. As with surfacing ACM, the only precautions necessary are to make sure that a HEPA vacuum cleaner and air-purifying respirators are available if needed.

Accidental Disturbance of ACM Possible: Even maintenance tasks that involve no direct contact with ACM may cause accidental disturbance. For example, vibrations created by maintenance activities in one part of piping network will be transmitted to other parts. Vibrations could then cause fibers to be released from insulation which is exposed (not covered with a protective jacket) or not in good condition. If in doubt about the possibility of fiber release, thoroughly inspect the thermal system insulation before undertaking the maintenance or repair work. Then, either correct the problem before starting, or assume that the maintenance work may cause accidental disturbance and fiber release. In this case, the following procedures should be used:

- Work approval and site preparation procedures as described under Surfacing Material shall be followed.
- Cut and tape six-mil polyethylene plastic sheets around any insulation which might be accidentally disturbed. The ACM insulation and plastic sheets shall be misted with amended water before they are taped shut. If the locations where insulation could be disturbed are too numerous for isolation with plastic, workers are to perform the maintenance work wearing air-purifying negative air pressure respirators, at a minimum, and protective clothing, including disposable suits and hoods.
- Cleanup procedures, as described under Surfacing Material, are to be followed. Special care shall be taken when removing the plastic from the insulation to minimize disturbance of any ACM dust or debris that may have fallen from the insulation.

**Disturbance of ACM Intended or Likely:** Where asbestos-containing thermal insulation must be removed to maintain or repair the thermal system, the ACM will obviously be disturbed. As with surfacing ACM, the amount to be removed or manipulated will determine the procedures to be used.

### **Small Disturbances:**

- Work approval and site preparation procedures as described for surfacing ACM shall be followed.
- Maintenance workers are to wear at least air-purifying negative pressure respirators with HEPA filters and protective clothing (suit, hood, and boots) in case of a fiber release accident.
- The asbestos-containing insulation is to be removed as necessary for the repairs, and the repairs made using standard glove bag techniques, where possible, (see the EPA publication: "Asbestos-in-Buildings Technical Bulletin:

Abatement of Asbestos-Containing Pipe Insulation," 1986-2 and the OSHA construction industry rule). Glove bags are fastened around the part to be repaired, the insulation is removed with knives and saws to make the part accessible, and the repairs are made using tools contained in the glove bag tool pouch. The open faces of the remaining asbestos-containing insulation are then sealed with an encapsulant or latex paint, all surfaces are wet-wiped or HEPA vacuumed, and all debris is sealed in the glove bag and removed, together with the bag.

- If a bag is ruptured during the course of repairs, work should stop, the area shall be sealed off, and all procedures recommended for large-scale asbestos removal are to be followed. Thorough clean-up of the work site, followed by air testing is, especially important to assure that fibers which may have escaped are removed. Sealing tape applied quickly to a small puncture could prevent significant release of fibers to the room, provided the ACM inside the bag was thoroughly wet. In this case, sealing off the area followed by cleaning and air testing is probably not necessary.
- At the conclusion of the work, maintenance workers shall vacuum their disposable suits and remove and dispose of them before leaving the work site. As an alternative, workers may put on a second clean disposable suit, proceed to a remote shower room, remove both suits, shower with their respirators on, and clean their respirators while in the shower.
- All glove bags and any other used materials (including disposable clothing) shall be discarded as asbestos waste.
- Non-asbestos insulating materials can be installed, as necessary, to replace insulation which was removed.

Large Disturbances: Maintenance activities which involve removal of three or more square or linear feet, of asbestos-containing insulation (e.g., several valves need attention in a utility room or block insulation needs to be removed for boiler repair) are considered large-scale disturbances. In some situations, glove bag techniques may be appropriate and the procedures described above under "small disturbances" may be followed. When glove bags are not feasible, the maintenance activities shall be conducted using all the procedures recommended for large-scale asbestos removal. ACM removal is typically conducted by abatement contractors. If maintenance personnel are authorized to conduct the removal, they must be thoroughly trained in removal techniques (OSHA requirement).

The choice between conducting multiple glove bag operations and isolating the entire work site is dependent on the total quantity of ACM to be removed. If the maintenance activities are likely to cause disturbance of ACM on pipes, boilers, or ducts at sites other than just those

undergoing repair (due to vibration, for example), then the entire room or area shall be isolated and large-scale asbestos removal procedures employed. NESHAP regulations require that friable asbestos-containing materials be removed prior to building renovation or demolition if 160-square feet, 260-linear feet or 35-cubic feet of ACM would be broken up or made inaccessible for subsequent removal prior to demolition.

15. Miscellaneous ACM: Miscellaneous ACM includes vinyl asbestos floor covering, asbestos ceiling tiles, transite wall board and counter tops, asbestos roofing, exterior transite siding and shingles, and various textile products such as stage curtains. Disturbance of these materials should be avoided. Where this is not possible, the applicable procedures should be used as described above for small or large-scale removal of ACM. NESHAP (40 CFR 61 Subpart M) defines certain materials, such as vinyl asbestos floor tiles or asphalt roofing materials, as category I and category II non-friable ACM. These materials are not regulated unless they have become friable, or will be made friable in the course of renovation or demolition work. Cutting, drilling, grinding, or sanding of ACM will make it friable and must be performed with tools equipped with HEPA-filtered vacuum systems (OSHA requirement).

Whenever friable ACM is present in a building, special procedures should be followed when changing filters in the HVAC system. The filters shall be misted with amended water as they are removed, placed in plastic bags, sealed, and discarded as asbestos waste. Workers shall wear at least an airpurifying negative pressure respirator.

16. Special Work Practices for Renovation and Remodeling: Clearance for all renovation and remodeling projects must be obtained from the Asbestos Program Manager before serious project planning is begun.

Renovation: Building renovation or building system replacement can cause major disturbance of ACM. Moving walls, adding wings, and replacing heating or air conditioning systems involve breaking, cutting, or otherwise disturbing ACM that may be present. Prior removal of ACM is highly recommended in these situations, and is required by NESHAP if the amount of ACM likely to be disturbed is greater than the threshold amounts (160-square feet, 260-linear feet or 35-cubic feet of ACM). If prior removal is not undertaken, the renovation project should be considered equivalent to an asbestos removal project. All the procedures and precautions for asbestos removal recommended by EPA and required by OSHA as previously discussed must be employed. A key step in considering a renovation project is checking on the location and type of ACM that may be affected.

Remodeling: Remodeling or redecorating implies less dramatic structural alteration. However, disturbances of ACM or materials contaminated with asbestos fibers is still possible. Where the remodeling involves direct contact with ACM (e.g., painting or wallpapering over ACM), all of the procedures and precautions recommended by EPA and required by OSHA for asbestos removal shall be followed.

If "miscellaneous" types of ACM have to be removed as part of the renovation project, the removal is to be accomplished with care to avoid breaking the material. For example, small sections of asbestos-containing floor tiles can be removed by applying dry ice or heat from a portable heater to the tops of the tiles and then prying them up. Glued carpet may require a mechanical chipper to separate the carpet form the floor. Before a chipper is employed, test the carpet adhesive for asbestos.

# 17. Enclosure and Encapsulation:

**Enclosure:** Enclosure is the construction of an permanent seal around the asbestos material. This abatement method should be used only where removal or encapsulation of the ACM is not practical. The enclosure should provide protection against physical damage and completely prevent air circulation between the enclosed space and other spaces.

Prior to building the enclosure, remove all loose ACM debris, and apply lockdown encapsulant to the remaining material. A containment may be required for this preliminary work. The enclosure should be airtight, the construction material providing a continuous impermeable surface. Plaster, gypsum board which is taped and spackled, masonry construction and tongue-and-groove boards, are examples of acceptable enclosure materials. Sealant should be applied to all joints between dissimilar materials and between wall, floor and ceiling surfaces.

The use of enclosures should be noted in building records and the asbestos database. The enclosure should be labeled in accordance with the Notification and Labeling section of this O&M Program.

Encapsulation: Encapsulation is an abatement method in which the ACM is treated with a sealant to prevent the release of asbestos fibers. It should be used as a part of the O&M Program as a means to repair damaged ACM, to prevent future damage, or to seal ACM exposed by small-scale removal work. Encapsulants act by penetrating the ACM (penetrating encapsulant) or as a surface coating (bridging encapsulant). They are applied directly to the ACM and bind the asbestos fibers together. Surface coatings also provide some resistance to impact damage since the surface to be treated must be in good condition, this method is not appropriate for materials which are damaged, delaminating or separating from the substrate. When used on ACM fireproofing, the encapsulant must not degrade the fire rating or add weight which will cause it to separate from the substrate.

The EPA has evaluated encapsulating materials using five criteria: 1) impact resistance, 2) flame spread, 3)smoke generation, 4)toxic gas release during combustion, and 5) adhesive/cohesive strength. The most widely used products are penetrating encapsulants, bridging encapsulants, trowelable coatings and fabric wraps. Penetrating and bridging encapsulants are normally used where a large surface area must be covered such as an ACM acoustic plaster ceiling. They are applied with airless spray equipment. Trowelable coatings

and fabric wraps are more appropriate for smaller applications such as boilers or pipe insulation. As with enclosures, the use of encapsulants should be noted in building records and the asbestos database. The encapsulated ACM should be labeled in accordance with the Notification and Labeling section of this O&M Program.

18. Emergency Response Procedures: As long as ACM remains in the building, there is the possibility that a fiber release episode could occur. ACM can be disturbed during the course of day-to-day operations by physical damage to the material or water damage due to pipe or roof leaks. The Asbestos Program Manager shall be notified immediately of the presence of debris on the floor, any physical damage to the ACM, or any other evidence of possible fiber release.

Fiber release episodes can also occur during maintenance or renovation projects. The Maintenance/Renovation Permit System will alert work crews to the presence of known asbestos, however, abandoned pipes with ACM insulation or other materials may be hidden in walls. In addition, known ACMs may inadvertently be disturbed by work crews.

Special procedures are generally needed to minimize the spread of fibers throughout the building after asbestos fiber releases occur. The proper response is guided by the size of the fiber release. A minor fiber release episode is defined as less than three-square or linear feet of ACM disturbed. Minor episodes can generally be handled with standard wet cleaning and HEPA-vacuuming techniques. A major release episode, defined as equal to or greater than three-square or linear feet of ACM, requires action similar in scope to a large-scale abatement project. EPA and/or state notification is required for emergency response actions based on the quantity of asbestos-containing material involved. Detailed notification requirements are provided in the section titled "EPA/State Notification." Detailed instructions for both types of release episodes are listed below:

Minor Episodes: Minor episodes, such as small section of insulation (less than three-linear feet) falling from a pipe or a worker bumping into a beam and dislodging a small amount of fire-proofing ACM (less than three square feet) are defined as such in the AHERA Rule. They can be treated with standard wet cleaning and HEPA-vacuum techniques:

• The area is to be isolated as soon as possible after the ACM debris is discovered. Where the area can be sealed by doors, they shall be locked from the inside (escape corridors must remain in operation) and signs posted to prevent unauthorized personnel from entering the work area:

DANGER-ASBESTOS; CANCER AND LUNG DISEASE HAZARD; AUTHORIZED PERSONNEL ONLY; RESPIRATORS AND PROTECTIVE CLOTHING ARE REQUIRED IN THIS AREA.

- Workers shall wear half-face negative pressure air-purifying respirators with HEPA filters and protective clothing including a body suit and hood, at a minimum.
- Workers must thoroughly saturate the debris with amended water using a mister with a very fine spray. The debris then is to be placed in a labeled, six-mil plastic bag for disposal and the floors cleaned with damp cloths or a mop. Alternatively, the debris can be collected with a HEPA vacuum cleaner.
- All debris and materials used in the cleanup are to be discarded as asbestos waste.
- The damaged ACM should be repaired with asbestos-free spackling, plaster, cement, or insulation, or sealed with latex paint or an encapsulant.
- Workers shall vacuum their disposable suits and remove and dispose of them before leaving the work site (or put on a second clean disposable suit), proceed to a shower room, shower with their respirator on, and clean their respirator while in the shower.

Major Episodes: Major fiber release episodes are very serious events. Large amounts of ACM falling from heights of several feet may contaminate an entire building with asbestos fibers. If three-square feet or more of surfacing ACM or three-linear feet or more of thermal system insulation delaminate or is dislodged from its substrate, the episode is considered major. A large breach in a containment barrier for a maintenance or abatement project is also considered a major episode. AHERA requires that the response action for any major fiber release episode must be designed and conducted by accredited Project Designers. However, the following response procedures form the basis for response actions.

• The area is to be isolated as soon as possible after the ACM debris is discovered. Where the area can be sealed by doors, they shall be locked from the inside (escape corridors must remain in operation) and signs posted to prevent unauthorized personnel from entering the work area:

DANGER-ASBESTOS; CANCER AND LUNG DISEASE HAZARD; AUTHORIZED PERSONNEL ONLY; RESPIRATORS AND PROTECTIVE CLOTHING ARE REQUIRED IN THIS AREA.

- The air-handling system shall be shut off or temporarily modified to prevent the distribution of fibers from the work site to other areas of the building. If applicable, doors, windows, and air registers are to be sealed with six-mil plastic sheets and tape.
- All the procedures recommended by EPA and required by OSHA for large-scale removal of ACM shall be followed. These include containment barrier, negative pressure ventilation, personal respiratory protection and protective clothing, decontaminate facilities, and air testing.
- Workers shall wear an air-purifying negative pressure respirator and protective clothing, including a body suit, hood, boots and gloves. Personal air monitoring may be conducted on representative workers, but is not required by OSHA when SCBA or "type C" respirators are used.
- Fallen debris shall be sprayed with amended water and placed in plastic bags for disposal. Shovels are useful for collecting the debris. The floor is to be thoroughly cleaned with a HEPA vacuum cleaner.
- Walls, ceilings, pipes, boilers, or other surfaces where ACM was damaged or delaminated shall be repaired temporarily. This might involve replastering with asbestos-free material, spraying with an encapsulant, or taping with duct tape. In some cases, ACM beyond the immediate area of damage may need to be removed to prevent additional episodes.
- The air shall be tested for asbestos fibers before the plastic barriers are removed and the area reoccupied. Testing should follow guidelines in Chapter 6 of the Purple Book and Chapter 4 of the Silver Book. Generally, the air is to be sampled at the specified number of locations and analyzed by either phase contrast microscopy (PCM) or transmission electron microscopy (TEM). The type of analysis selected will depend on the requirements for a given project. The asbestos program manager shall make the final approval of the type of analysis used.
- After the barriers have been taken down, a decontamination of the entire building or a portion of it should be considered. The need for this will depend on how rapidly the response team reacted to the episode and, in particular, how quickly the HVAC system was turned off. A thorough decontamination includes HEPA-vacuuming and/or wet wiping all carpets, furniture, and other surfaces. Decontamination of the HVAC system would involve disassembling and cleaning (HEPA-vacuuming or wet wiping) ducts, ventilators, registers, and other system parts. System filters should also be removed and replaced.

• All equipment used in the cleanup operation shall be washed or wiped with damp cloths. All disposable materials (e.g., cloths, mop heads, filters, coveralls) are to be discarded as asbestos waste.

Each fiber release episode should be documented. A sample report format is provided at **TAB** L of this section. These procedures shall be employed whether the building owner used in-house staff or an outside asbestos abatement contractor. If an outside contractor is used, the procedures should be thoroughly discussed and proper training of the contractor's crew assured before signing the contract.

Response actions to fiber release episodes shall be developed by an accredited Project Designer. At a minimum, the Asbestos Program Manager should have a Project Designer or Certified Industrial Hygienist (CIH) review and approve the response procedures for each event.

- 19. Asbestos Waste Storage and Disposal: All asbestos and asbestos-contaminated waste generated by private contractors working on Fort Belvoir shall be removed from the site and properly disposed of by the Contractor.
- 20. Periodic ACM Surveillance: A periodic review of the O&M program is essential to insure that the program objectives are being met. A key feature of the review is reinspection of all ACM in each building. Combined with ongoing reports of changes in the condition of the ACM made by services workers, the reinspection will insure that any damage or deterioration of the ACM will be detected and corrective action taken. Reinspection should be conducted at least annually; more frequently if necessary. Documentation of subsequent inspections is to be maintained by the Asbestos Program Manager.

The following assessment factors are used to evaluate each homogeneous area of ACM surfacing material thermal system insulation:

- ACM condition (deterioration, physical damage, and water damage)
- Potential for disturbance (frequency of potential contact, sources of vibration near the ACM, and potential for air erosion).

Inspections should be conducted by the Asbestos Program Manager, or personnel who have received at least Level 2 training. The results should be documented on new Field Assessment Forms and placed in the permanent asbestos file. A sample Field Assessment Form is provided at **TAB M** of this section.

If asbestos contamination is suspected, the Asbestos Program Manager may require air monitoring to supplement the physical inspection. If air monitoring is conducted, transmission electron microscopy (TEM), not phase contrast microscopy (PCM), shall be used to count and identify the airborne fibers. Only TEM can detect the small asbestos fibers typically found in buildings with ACM. (Large-scale disturbance of ACM will release both small and large fibers.) Since analysis by TEM is expensive, air monitoring which employs TEM is typically used on a one-time basis and

provide only a "snap-shot" view of building conditions. Such a one-time view can be very misleading because airborne asbestos levels vary from day-to-day and from room-to-room. Therefore, low readings are possible even when the ACM is in poor condition. For this reason, EPA does not recommend air monitoring for the initial assessment of exposure potential (see Chapter 4 of the EPA Purple Book). However, if the ACM is currently in good condition, increases in airborne asbestos levels may provide an early warning of deterioration or disturbance of the ACM.

To use air monitoring in an "early warning" context, a baseline asbestos level should be established soon after the O&M Program is initiated. Periodic air monitoring (perhaps conducted simultaneously with the reinspections) would then be used to determine if asbestos levels have changed relative to the baseline. Although this use of air monitoring is appropriate and useful in concept, it is expensive and not considered a standard course of action of this O&M Program.

If the air monitoring is used in specific cases as a component of the O&M Program, the air sampling and sample analysis procedures described in EPA's Silver Book (Measuring Airborne Asbestos Following Abatement Action, EPA 560) should be employed. For most conditions, at least five samples should be collected to establish a baseline, followed by at least five additional samples during each semi-annual reinspection of the ACM. Sequential sets of five samples can be averaged and the averages compared statistically (as described in Chapters 3 and 4 of the Silver Book for clearance monitoring) to determine whether asbestos concentrations are increasing. Note that aggressive sampling should NOT be used in any area where ACM is present. In some cases, such as ACM located in a small enclosed space, fewer samples may be necessary. The Asbestos Program Manager should consider the amount, type and location of ACM. Special training or expert advice is recommended to design and operate an air-monitoring program.

- 21. Record Keeping: All written records discussed in this section should be maintained as part of a thorough record keeping process. To review, these include:
  - The written O&M Program itself, including work practices
  - Building plans and diagrams
  - Survey data
  - Copies of notification and warning program
  - Attendance list, descriptions, times, and dates, of training programs
  - Written respiratory protection program
  - Medical surveillance records
  - Copies of all permits and documentation of custodial, maintenance, renovation, and emergency response actions performed
  - Periodic ACM surveillance records
  - Reports of all abatement activities conducted and results of monitoring and clearance sampling performed

OSHA requires that each employee's record of exposure and medical surveillance be made available to the employee. EPA recommends that all written elements of the O&M Program similarly be made available for inspection.

22. Equipment and Supplies: The Operations & Maintenance Program Equipment List provided at TAB N identifies the personal protective and monitoring equipment and general supplies required to support a team of five people with a minimum of Level 2 training. The amount of equipment and supplies is based on maintaining three routine O&M kits, two emergency response kits plus general supplies to ensure adequate bench stock.

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### DATABASE USERS GUIDE

When the Fort Belvoir Asbestos Management Database is brought on line (C:\BELVOIR "ENTER"), the first screen gives the user the opportunity to work in an existing survey area or to create a new one:

#### EDIT SURVEY AREA

Work with an existing database in a specified survey area.

# ADD NEW SURVEY AREA

Create a database for a new survey area. The screen will ask for a "new client" and a subdirectory name for the new survey area. (See Figure 1.) The name for the new client should be descriptive of the new survey area, it is the title that will appear on the screen in the Survey Area menus. The sub directory name is limited to eight characters and is used within the database to organize the data stored for each Survey Area. When the information is entered you will be returned to initial screen.

### DELETE EXISTING SURVEY AREA

This will delete all data from a Survey Area. To select the Survey area to be deleted highlight the selection and press "Enter." Two safeguards are provided to prevent the inadvertent loss of data.

"Are you sure you want to delete all databases?..."

Are You sure (Y/N)?

Both questions must be answered "Y" before the data will be deleted.

# **ESCAPE TO DOS**

Leave the Asbestos Management Database and return to the DOS prompt.

#### ASBESTOS MANAGEMENT DATABASE

EDIT SURVEY AREA

ADD NEW SURVEY AREA

DELETE EXISTING SURVEY AREA

ESCAPE TO DOS

FIGURE 1.

When "Edit Survey Area" is selected, the screen shown in Figure 2 will appear:

# ASBESTOS MANAGEMENT DATABASE

#### EDIT SURVEY AREA

#### ESCAPE TO PREVIOUS MENU

#### FORT BELVOIR

#### FIGURE 2.

Survey Areas are listed in the order in which they were entered. The escape selection will remain at the top of the screen as new survey areas are entered. To add to or edit data in an existing survey area, highlight the desired selection and press "Enter."

# **EDIT SURVEY AREA**

# ESCAPE TO PREVIOUS MENU

Return to Screen 1.

FORT BELVOIR

Open database files for Fort Belvoir.

When the Survey Area is selected, the screen shown in Figure 3 will appear:

# ASBESTOS SURVEY MASTER MENU FORT BELVOIR

- 1. ADD/EDIT BUILDING MASTER DATA
- 2. ADD/EDIT AREA DESCRIPTIONS
- 3. ADD/EDIT MATERIAL DESCRIPTIONS
- 4. ADD/EDIT LAB RESULTS
- 5. ADD/EDIT MATERIAL ASSESSMENTS
- 6. BROWSE DATABASES
- 7. CALCULATE ESTIMATES AND RISK INDEX
- 8. REPORTS
- 9. BACKUP ALL DATABASE FILES
- 0. RETURN TO PREVIOUS MENU

# FIGURE 3.

# ASBESTOS SURVEY MASTER MENU

1. Add/Edit Building Master Data

Add to or edit information for a particular building from the Initial Walk Through/Building Info Summary form. The Building Master Data is built and stored separately from the individual sample data. When data entry is complete, press "page down" to add the information to the database and bring up a screen to add another building. See Figure 4.

2. Add/Edit Area Descriptions

Add to or edit information describing the location where

	a sample was taken. Initially recorded on the Field Assessment form. See Figure 5.	
3. Add/Edit Material Descriptions	Add to or edit information describing the characteristics of the material sampled. Initially recorded on the Field Assessment form. See Figure 6.	
4. Add/Edit Lab Results	Add to or edit a summary of the Laboratory Report including percentage and type of ACM. See Figure 7.	
5. Add/Edit Material Assessments	Add to or edit the Exposure Assessment data which is used to compute the Risk Index. See Figure 8.	
6. Browse Databases	Pulls up a sub-menu which allows the user to scan all data in the Building Master file or the Sample data file. The Browse also allows the viewer to add to or update Costing Data used to develop the preliminary estimates.	
7. Calculate Estimates and Risk Index	Runs the algorithm described in the Risk Assessment section. The algorithm used the exposure assessment data to determine the Risk Index for each sample and a composite Risk Index for each building.	
8. Reports	See Reports menu.	
9. Backup all Database Files	Save all database files to a floppy disk.	
0. Return to Previous Menu	Return to the Edit Survey Area Menu. The number of high density 5-1/4" floppy disks required will be shown on the screen. Insert the disk and press "Y" to begin backup.	

# FORT BELVOIR ASBESTOS SURVEY BUILDING MASTER DATA DATA ENTRY FORM

BUILD. ID. (PREFIX-BLDG. NOSUFFIX	- 303
BUILDING NAME:	/ /
BUILDING INFORMATION:	
SQUARE FOOTAGE:	
YEAR OF CONSTRUCTION:	
BUILDING USE/TYPE:	
OCCUPANCY:	
DURATION:	

COMMENT: UP ARROW TO CORRECT, PGDN IF FINISHED, X TO EXIT

FIGURE 4.

# FORT BELVOIR ASBESTOS SURVEY AREA DESCRIPTION DATA ENTRY FORM

BLDG. ID. (PREFIX-BLDG. NO. - SUFFIX) BLDG ID: - 0-(PREFIX-NUMBER-SUFFIX) SAMPLE ID: - 0-

CADD LOCATION ROOM USE FLOOR NO. ROOM NO. COMMENT

UP ARROW TO CORRECT, PGDN IF FINISHED, X TO EXIT ENTER BUILDING INFO AND SAMPLE NO.

FIGURE 5.

# FORT BELVOIR ASBESTOS SURVEY MATERIAL DESCRIPTION DATA ENTRY FORM

BLDG. ID (PREFIX-BLDG. NOSUFFIX) -	0-	
SAMPLE ID. (PREFIX-NUMBER-SUFFIX)		- 0-
CADD LOCATION		
HOMOGENEOUS ID		
MATERIAL TYPE:		
MATERIAL SIZE/DIMENSIONS.		
QUANTITY:		
SQUARE FEET		
LINEAR FEET		
EACH		

UP ARROW TO CORRECT, PGDN IF FINISHED, X TO EXIT ENTER BUILDING INFO AND SAMPLE NO.

FIGURE 6.

# FORT BELVOIR ASBESTOS SURVEY LAB RESULTS DATA ENTRY FORM

# FORT BELVOIR ASBESTOS SURVEY MATERIAL ASSESSMENT DATA ENTRY FORM

BLDG ID. (PREFIX-BLDG NO. -SUFFIX) - 0-SAMPLE ID. (PREFIX-BLDG NO. -SUFFIX) - 0-

1 - MATERIAL DETERIORATION/DAMAGE

1.1 BUILDING AGE

1.2 MATERIAL TYPE

2 - WATER DAMAGE

2.1 ROOF TYPE

3 - EXPOSED SURFACE AREA

3.1 CEILING

4 - ACCESSIBILITY

4.1 MATERIAL HEIGHT

4.2 FREQ. OF OCCUPANCY

5 - BUILDING ACTIVITY/MOVEMENT

5.1 AREA ACTIVITY LEVEL

5.2 AREA VIBRATION LEVEL

6 - AIR PLENUM & MOVEMENT

6.1 VELOCITY

7 - FRIABILITY

UP ARROW TO CORRECT, PGDN IF FINISHED, X TO EXIT ENTER BUILDING INFO AND SAMPLE NO.

FIGURE 8.

PRELIMINARY
RECOMMENDATIONS

HAZARD ASSESSMENT IMMEDIATE HAZARD? AIR SAMPLING REQUIRED? PHOTO TAKEN?

# BROWSE DATABASES MENU

1. Browse Building Master Data

View all Building Master data. An entry may be changed by pressing "Enter" to activate the cursor. Enter the new information and press "Enter" again or move the curser to complete the entry. To delete a line of data, enter a "Y" in the Delete column on the line to be deleted. When you escape (press ESC) from the browse mode the database will prompt "Some items are marked to be deleted. Continue (Y/N)?" Press Y to delete and exit or N to return to the browse mode.

2. Browse Sample Data

View all Sample Data. Data may be modified or deleted as described above.

3. Update Costing Data

Costs may be updated in the same manner as making changes in the browse mode. Press enter to activate the cursor, make edits, and press enter or move the cursor to complete the entry. New items may be added at the bottom of the existing file and will be automatically alphabetized by Material Code. Press ESC to escape to the Browse Databases Menu. This table also serves to define the Material Code used throughout the database. See Figure 9.

4. Return to Previous Menu

Return to the Reports Menu.

### BROWSE DATABASES MENU

- 1. BROWSE BUILDING MASTER DATA
- 2. BROWSE SAMPLE DATA
- 3. UPDATE COSTING
- 0. RETURN TO PREVIOUS MENU

#### FIGURE 9.

For all reports, first select screen display (D) or hard copy print (P) at the prompt. See figure 10.

### REPORTS MENU

1. Summary report for selected group of buildings Prints Summary Reports for up to 16 buildings. Enter the building numbers including Prefix, Number, and Suffix as applicable. When the desired buildings have been entered, enter "Q" in the prefix cell on the following line. When the report is displayed, press ESC to advance to the next building report. the next building to be displayed will be shown on the screen as "Printing Bldg. no. AA-0000-BB. Press "Enter" to move the cursor through the Number and Suffix columns to begin printing.