GENERAL PROCEDURES FOR TYPE 1, 2 & GLOVE BAG WORK

All persons performing Type 1, 2 or Glove Bag remedial work while present at any University of Manitoba owned or occupied premises, shall comply with the following procedures at a minimum.

NOTE: The following procedures shall apply equally to all classifications (i.e. Type 1, 2 or Glove Bag) of work and shall be read in conjunction with all other requirements and procedures as set out in the AMP document to which this appendix is attached.

1.0 LOCATION OF ASBESTOS-CONTAINING MATERIALS (ACM)

1.1 For a general description as to the location of asbestos-containing materials known to be present throughout each building, refer to the initial Asbestos Screening Report or subsequent Asbestos Survey Update. A copy of this document is maintained on file by the Asbestos Programs Officer and is also available for viewing at those locations identified under Section 3.2.13 of the AMP Document.

1.2 Should any person encounter an unexpected material or material suspect of containing asbestos that has not clearly been identified in the above referenced survey document, work in the immediate area at risk of disturbing such a material shall be halted. Immediately notify the individual manager or project coordinator assigned to the work seeking further direction. Do not resume work until it has been determined if the material in question contain asbestos.

2.0 QUALITY ASSURANCE

2.1 Removal, clean-up or repair of asbestos-containing or contaminated materials is to be performed by persons trained in the methods, procedures and industry practices for Asbestos Abatement.

2.2 Work shall be complete in such a manner so that at no time airborne dust, visible debris, or water runoff contaminate an area outside the established Asbestos Work Area.

2.3 Any contamination of surrounding area (indicated by visual inspection or air monitoring) shall necessitate an immediate clean-up of affected area. The Asbestos Programs Officer (if available) shall be notified as soon as possible following such an occurrence and informed of the measures being implemented to correct the situation.

3.0 INSPECTION

3.1 The Asbestos Programs Office or Inspection Agency designated by the Asbestos Programs Officer, shall review each active asbestos work site a minimum of once per day as a means of ensuring worker compliance with the procedures and work practices established by the AMP document. For work undertaken by the Universities own staff, the frequency of the above site inspection shall be reduced to a random basis and at a minimum frequency so as to comply with standards set out by the Universities Senior Asbestos Programs Officer.

3.2 Ensure each site inspection conforms to the requirements set out under Section 8.0 of the AMP document to which this appendix is attached.
4.0 AIR MONITORING

4.1 The Asbestos Programs Officer or Inspection Agency designated by the Asbestos Programs Officer, shall monitor all asbestos disturbances on a daily basis to ensure worker safety and compliance with control limits established by governing authorities and as set out under the University’s AMP document.

4.2 Ensure air monitoring is performed in compliance with Section 8.0 and Appendix “F” of the AMP document to which this appendix is attached.

5.0 PROJECT NOTIFICATION

5.1 Refer to Section 10.0 of the Universities Asbestos Management Program for additional information and requirements.

5.2 Ensure all project notifications and requirements as set forth in the above document are provided in advance of any asbestos disturbance.

6.0 SCHEDULING OF WORK

6.1 Schedule work during quiet times approved by the individual manager or project coordinator in charge of the work and/or when the area is unoccupied. If unauthorized persons are present, do not start work.

6.2 Schedule work during times when any HVAC systems that may be affected by the work can be shutdown and/or are otherwise isolated.

6.3 If work is required on an emergency basis and the area is occupied, have the individual manager or project coordinator in charge of the work advise occupants to vacate area until work is complete and clearance is given to return to the area.

7.0 WORKER PROTECTION

7.1 General

7.1.1 Before entry to an Asbestos Work Area, all personnel must have undergone asbestos training.

7.1.2 Such training shall, at a minimum, satisfy each of the requirements as set forth under Section 10 of the Asbestos Management Program document to which this appendix is attached.

7.1.3 Workers shall not eat, drink, smoke or chew neither gum nor tobacco except in established areas outside the designated Asbestos Work Area.

7.1.4 Workers shall be protected at all times when a possibility of asbestos disturbance exists.
7.2  Respirator Protection

7.2.1  Respirators used shall be certified by the National Institute of Occupational Safety and Health (NIOSH) or other testing agency acceptable to governing authorities.

7.2.2  Filters used shall be tested following each use in accordance with manufacturer's specifications or replaced at the following minimum frequency:

- Replace filters for negative pressure respirator every sixteen (16) hours of wear unless tested on-site.
- Replace PAPR cartridge filters every eight (8) hours of wear unless tested on-site.

7.2.3  No person who has facial hair that may effect the seal between the respirator and his/her face shall be granted entry to an Asbestos Work Area.

7.2.4  Respirators shall be cared for in accordance with the procedures as set forth in Appendix G of the AMP document to which this appendix is attached.

7.3  Protective Clothing

7.3.1  All persons required to enter an Asbestos Work Area must be fitted with disposable full body coveralls with attached head covering and elastic hand and pant cuffs. Once worn within the Asbestos Work Area, dispose of as asbestos waste.

8.0  SIGNAGE/LABELLING

8.1  Work Area Signs: Post signs at all access points to the Asbestos Work Area. Where possible, provide signage immediately prior to entering the Asbestos Work Area, but out of public view. Letters on signs shall be in upper case "HELVETICA MEDIUM" and read as follows:

- CAUTION (25 mm high)
- Asbestos Hazard Area (19 mm high)
- Unauthorized Entry Prohibited (19 mm high)
- Wear Assigned Protective Equipment (19 mm high)
- Breathing Asbestos Dust May Cause Serious Bodily Harm (19 mm high)

8.2  Container Signs: Label containers for the disposal of asbestos as follows:

- CAUTION CONTAINS ASBESTOS FIBRES (25 mm high)
- Do Not Mishandle (19 mm high)

9.0  WASTE & MATERIAL HANDLING

9.1  Asbestos-containing or contaminated materials removed shall be treated, packaged, transported and disposed of as asbestos contaminated waste.

9.2  Materials that could tear or puncture a 6 mil (0.15 mm) polyethylene bag shall be packaged and disposed of in sealed rigid waste containers acceptable to the individual manager or project coordinator in charge of the work and local landfill authority.
9.3 Redundant non-asbestos-containing materials, rubble and debris removed during contaminated work shall be treated, packaged, and disposed of as asbestos contaminated waste. With written approval of the individual manager or project coordinator in charge of the work or Designated Inspection Agency, non-porous materials may be cleaned, sprayed with a sealer and disposed of as clean waste.

9.4 Waste removed off-site must be transported to an approved disposal site by a hauler licensed to transport asbestos waste by Manitoba Conservation.

9.5 Transportation of all waste and materials through Occupied Areas shall be covered or placed within unmarked carts and must never be left unattended. Clean-up waste route and loading area after each load. Use asbestos abatement precautions if appropriate or requested by the individual manager or project coordinator in charge of the work or Designated Inspection Agency.

9.6 For work undertaken by the University’s own employees, ensure waste is relocated at the end of each work shift to authorized areas for temporary storage. Access to this area shall remain locked when not occupied and shall be properly posted to identify the presence of asbestos waste.

9.7 For work completed by an outside contractor, waste must be removed off-site at the end of each work shift.

9.8 As the waste is removed off-site, the worker in charge of the work shall ensure a copy of the completed waste waybills is obtained from the disposal firm and submitted to the individual manager or project coordinator in charge of the work. A copy of the standardized “Asbestos Waste Manifest” is provided in Appendix T and forms part of the AMP document.

10.0 PRODUCTS & FACILITIES

10.1 Materials and equipment must be in good condition and free of asbestos, asbestos debris, and fibrous materials. Disposable items must be of new materials only.

10.2 Asbestos Waste Container: Impermeable container acceptable to local landfill authority, labelled as required and comprised of the following:

- A sealed 6 mil (0.15 mm) polyethylene bag or glove bag positioned inside a second 6 mil (0.15 mm) sealed polyethylene bag.
- A sealed 6 mil (0.15 mm) polyethylene bag or glove bag positioned inside or outside a rigid sealed container of sufficient strength to prevent perforation during filling, transportation and disposal.

10.3 Bridging Encapsulant: Bridging encapsulant for purpose of encapsulating remaining asbestos-containing material at locations deemed to be inaccessible by the individual manager or project coordinator in charge of the work and/or his appointed representative. Product shall be colour coded bright red and be capable of withstandling surface temperature of substrate. Apply product uniformly to minimum thickness of 10 mil.

10.4 HEPA Vacuum: Vacuum equipped with a HEPA filtration system and the necessary fittings, tools and attachments to execute the work properly. Vacuum must also be labelled appropriately to identify that it contains asbestos dust and must never be opened except within a sealed Asbestos Work Area while following Type 2 precautions at a minimum.

10.5 Lock-down Agent: Sealant for purpose of trapping residual dust and shall be capable of withstanding surface temperature of substrate. Product must be compatible with replacement materials and shall leave no stain when dry.
10.6 Negative Air Exhaust Ducting (Flexible): Air tight tubing with metal reinforcement. Mechanically affixed each exhaust duct to the unit’s exhaust with metal hose clamp. Diameter of duct to equal negative air discharge. Acceptable product: Thermalflex S-LP 10 flexible ducting as manufactured by Flexible Technologies.

10.7 Negative Air Unit: Portable air handling system which extracts air directly from the Asbestos Work Area and discharges air to exterior of building. Equipped as follows:

- Pre-filter and HEPA filter. Air must pass HEPA filter before discharge.
- Pressure differential gauge to monitor filter loading.
- Auto shut off and warning system for HEPA filter failure.
- Separate hold down clamps to retain HEPA filter in place during change of pre-filter.

10.8 Polyethylene Sheeting: 6 mil (0.15 mm) minimum thickness in sheet size to minimize joints.

10.9 Protective Coveralls: Disposable full body coveralls complete with hoods and elasticized hand and pant cuffs. Acceptable material: Tyvek coveralls.

10.10 Rip-Proof Polyethylene Sheeting: 8 mil (0.20 mm) fabric made up from 5 mil (0.13 mm) weave and two (2) layers of 1.5 mil (0.05 mm) poly-laminate in sheet size to minimize on-site seams and overlaps.


11.0 EXECUTION

11.1 Refer to Appendix L – N of the AMP document for detailed procedures pertaining to each of the various classification of Low to Moderate Risk asbestos work (i.e. Type 1, Type 2 and Glove Bag).