

<b>Subject:</b>  <b>Asbestos Management Services</b>	<b>Effective Date:</b>  October 8, 2003	<b>Initiated by:</b>  Head, ER/WM
	<b>Supersedes:</b> 4/14/00 EWM-005 Rev. 0	<b>Approved:</b>  Director

**Applicability**

This procedure applies to all renovations, remodeling, demolitions and installations at PPPL which involve known or suspect asbestos and asbestos-containing materials. This includes such things as thermal insulation, transite wall and pipe materials, and vinyl asbestos tile.

**Introduction**

Asbestos containing material (ACM) is strictly regulated by multiple authorities, including OSHA, DOE, EPA and NJDEP, because airborne asbestos fibers present a significant health risk. This procedure has been implemented to protect the health of PPPL personnel and to comply with the various state and federal regulations. *It should be noted that asbestos-containing materials (ACM) can be found anywhere in the facility* (the locations of known ACM are listed in Attachment 1). The primary methods of asbestos control are isolation of the installation, protective clothing and breathing protection for asbestos handlers, and care taken with asbestos containing materials so that they will not be damaged and release fibers into the air.

In order to minimize risk to PPPL employees and the environment, the Waste Management Branch of the Environmental Restoration and Waste Management (ER/WM) Division has been designated the single point of contact for all activities involving ACM. The responsibilities of ER/WM include the inspection, coordination and supervision of all asbestos activities, and notification to the appropriate state and federal authorities that such activities are to take place. ER/WM has been so designated for the purposes of protecting the health and safety of PPPL personnel and the environment, ensuring compliance with asbestos regulations, reducing PPPL liability, and to simplify reporting and record keeping.

An asbestos survey is required prior to scheduling all building construction activities in areas where the presence of ACM is known or suspected. In addition, this procedure will apply to any activity during which ACM is discovered. When ACM is present, ER/WM will coordinate all phases of asbestos removal. According to federal law, notifications and inspections must be made prior to the start of any activity involving asbestos. In the cases where ACM is unexpectedly discovered after commencement of an activity, the activity will be interrupted until an ER/WM representative can evaluate the situation. Under no circumstance will building construction activity in an area where the presence of ACM is known or suspected commence prior to consultation with ER/WM. Emergency renovations are *not excluded* from this procedure.

### **Reference Documents**

Code of Federal Regulations, Title 40, Part 61 Subpart M, Sections 140 through 157, EPA Asbestos Standards (40 CFR 61.140-157)

Federal Register, Vol. 55, No. 224, Tuesday, Nov. 20, 1990, EPA 40 CFR Part 61 [AD-FRL-3814-7] RIN 2060 AC57, National Emission Standards for Hazardous Air Pollutants; Asbestos NESHAP Revision, Final Rule

Code of Federal Regulations, Title 29, Part 1910, Section 1001, and OSHA Asbestos Standard (29 CFR 1910.1001)

Code of Federal Regulations Title 29, Part 1926, Section 58, OSHA Asbestos Standard for Construction (29 CFR 1926.058)

### **Definitions**

*Asbestos-Containing Material (ACM) and Asbestos-Containing Waste Material:* Any material or waste which contains asbestos as defined in 40 CFR 61.141, including Categories I and II non-friable ACM (see below).

*Asbestos Removal Subcontractor:* An asbestos removal firm licensed by the New Jersey Department of Labor to remove regulated ACM (RACM).

*Building Construction Activities:* Activities that can potentially disturb any asbestos present in a building or location including, but not limited to, construction, renovation, demolition, and maintenance.

*Category I Non-friable Asbestos-Containing Material (ACM):* Asbestos containing packing, gaskets, resilient floor covering, and asphalt roofing products containing more than one percent (1%) asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR part 763, Section 1, Polarized Light Microscopy.

*Category II Non-friable ACM:* Any material, excluding Category I non-friable ACM containing more than one percent (1%) asbestos as determined using the methods specified in appendix A, Subpart F, 40 CFR Part 763, Section 1, Polarized Light Microscopy, that when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

*Cognizant Individual:* Individual responsible for renovation, demolition or building construction project, or for the repair or any other activity where ACM is present, suspected or unexpectedly discovered

*Emergency Conditions:* Disturbance of ACM that was not planned, resulting in a sudden, unexpected release of asbestos fibers, which, if not immediately attended to, presents a safety and public health hazard.

**Precautions and Limitations**

There are both known and suspected hazards from exposure to asbestos and asbestos- containing materials. Employees who work with asbestos must be knowledgeable of these hazards and employ controls (e.g., engineering, administrative, personal protective equipment) to minimize exposure.

**Procedure****Responsibility****Action**

Cognizant Individual

1. Determines the prevailing conditions of a renovation, demolition, building construction or repair project:
  - i) If a planned project is being conducted in an area where the presence of ACM is known or suspected, Normal Conditions, apply. Continues with **Section A. Normal Conditions.**
  - ii) If ACM has been disturbed and asbestos fibers have been released, an immediate response is required. Implements **Section B. Emergency Conditions.**
  - iii) If the project is underway and known or suspect ACM is discovered where it was not expected, and the ACM has not been disturbed, Unexpected ACM conditions apply. Continues with **Section C. Unexpected ACM.**

***A. Normal Conditions***

Cognizant Individual

1. Identifies renovation, demolition, and building construction or repair project where the presence of ACM is known or suspected.
2. Requests asbestos survey from ER/WM.

**Note: Whenever the presence of ACM is suspected or known, under no circumstance will any building construction activity begin prior to an asbestos survey.**

**Responsibility**

**Action**

**ER/WM Waste Management Engineer or designee**

3. Reviews asbestos surveys and determines if further evaluation or sampling is required.
4. If ACM is not present, notifies Cognizant Individual that no ACM is present.
5. If ACM is present and removal is not necessary, takes action to prevent ACM from being damaged and notifies Cognizant Individual that work may begin.
6. If ACM is present and removal is necessary, initiates EM-OP-01.

**Note: In the area where ACM is present, under no circumstance will any building construction activity, which could disturb the ACM, begin prior to completion of the asbestos removal phase of the project.**

**During the asbestos removal phase of the project ER/WM is responsible for activities in the area.**

7. Notifies Cognizant Individual that ACM has been removed and that work can proceed.
8. When survey certifies that no ACM is present, or when ACM has been secured from damage, or when asbestos removal is complete, notifies the Cognizant Individual.

***B. Emergency Conditions***

Cognizant Individual

1. Determines that ACM has been disturbed and fibers have been released.
2. Immediately notifies ER/WM Waste Management Branch Manager or designee (e.g. if manager is away from site) of the release of asbestos fibers.

**Responsibility**

**Action**

3. Immediately stops work in area, and does not allow work to resume until asbestos hazard has been cleared.

**Note: If a release of asbestos has occurred, only an immediate threat to the physical safety of personnel will override the health threat of the presence of ACM.**

**ER/WM Waste Management Engineer or designee**

4. Implements EM-OP-01, Emergency Procedure.
5. When the area has been cleared of fibers, notifies Cognizant Individual that work can proceed.

Cognizant Individual

6. Resumes construction activities.

***C. Unexpected ACM***

Cognizant Individual

1. After project has begun, discovers unexpected ACM that has not been disturbed.
2. Immediately stops work in area, and does not allow work to resume until asbestos hazard has been cleared.
3. Notifies ER/WM Waste Management Branch Manager of unexpected ACM.

**ER/WM Waste Management Engineer or designee**

4. Evaluates situation and implements EM-OP-01, if necessary.
5. Notifies Cognizant Individual that ACM has been removed or is no longer in danger of being disturbed and that work can proceed.

Cognizant Individual

6. When asbestos removal is complete, resumes construction.

**Note: If, during any activity, asbestos fibers are released to the air, go to Section B, step 1.**

**Attachments**

- I Suspected Asbestos Containing Materials at PPPL.

Asbestos containing materials are suspected to exist in the following buildings:

- |   |   |
|---|---|
| Admin. Building-GPOC/Library<br>Cafeteria/Admin. Wing<br>CAS Building<br>COB Building<br>Cooling Tower Pump House<br>CS Building<br>Engineering Wing<br>ESU<br>FCPC Building<br>Hot Cell and NB Test Cell<br>L Wing Addition<br>Laboratory Building<br>LSB East Wing<br>LSB West Wing<br>Maintenance Building<br>Materials Storage Building | MG Building<br>Mock-up Building<br>Module 1<br>NBPC Building<br>PLT Power Building<br>Radioactive Waste Storage<br>Receiving #3<br>Receiving #4<br>RF Building<br>Shop Building<br>System Test Building (Experimental Power ESAT)<br>TFTR Cooling Tower Pump House<br>TFTR MG Building<br>TFTR Test Cell<br>Theory Wing |
|---|---|

**Note: Asbestos can be found anywhere in the Laboratory. Reference to this list does not, and is not meant to replace a site evaluation by ER/WM Division.**

The following materials may be assumed to contain asbestos:

- |  |  |
|--|--|
| Acoustic Wall Panels<br>Asphalt Non-Skid Treads<br>Asphalt/Composite Roofing<br><br>Asphalt Roof Shingles<br>Ceiling Tile (drop-in)<br>Ceiling Tile (spline, glued-on)<br>Chiller Insulation<br>Drywall w/joint compound<br>Duct Insulation<br>Duct Patching<br>Fiberglass Batting w/foil and white paper backing<br>Firestopping<br>Firestopping Board<br>Floor Tile (including mastic)<br>Header Pipe Insulation (on boiler)<br>Lab Bench/Table Tops | Lagging (covering over non-suspect pipe insulation)<br>Linoleum/Sheet Flooring (including mastic)<br>Pipe Insulation (block, corrugated (Aircell), compressed, and fittings)<br>Plaster<br>Roll Roofing<br>Roof Flashing<br>Roof Flashing Cement/Sealant<br>Roof Patching<br>Sealant (on foam pipe insulation)<br>Spray-on Fireproofing<br>Stack Insulation<br>Tank Insulation<br>Textured Paint<br>Transite Panels, Fume Hoods, Shelves<br>Vibration Isolation Cloth<br>Wallboard (N.C.F.R. Wallshield) |
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On the following pages are listings, by building, of the location, material, approximate amount and condition of known ACM. Please refer to this when planning construction activities. Again, reference to the lists is not meant to replace consultation with ER/WM.

**Suspected Asbestos Containing Materials at PPPL** **Page 2 of 6**

Building	Floor	Room No.	Description	Quantity		Total Asbestos	Friable
				SF	LF	Percentage	
<b>Admin Bldg-</b>	Roof	(perimeters, penetrations)	Roof Flashing	1200		10%; Chrysotile	No
<b>GPOC/</b>	1	141 (closet)	Vibration Isolation Cloth	5		25%; Chrysotile	Yes
<b>Library</b>	1	116 (closet)	Firestopping	1		30%; Chrysotile	No
	1	140 (perimeter)	Fiberglass batting w/foil and white paper	565		30%; Chrysotile	Yes
	Roof	(comput add'n/11D, lib/108)	Roll Roofing (w/stone aggregate)	6580		5%; Chrysotile	No
	1	Various	Pipe Insulation Fittings a/w Fiberglass P.I.		200	60%; Amosite*	Yes
	Roof	(main admin. area)	Asphalt Tar Paper Roofing	18950		Assumed ACM	No
	1	Various	Floor Tile (9"x9", gray)	5650		Assumed ACM	No
	1	Various	Floor Tile (9"x9", tan)	2085		Assumed ACM	No
	1	102A	Floor Tile (12"x12", gray)	50		Assumed ACM	No
	1	Various	Floor Tile (12"x12", white)	3530		Assumed ACM	No
	1	Hall 100, Lounge Foyer	Floor Tile (9"x9", red)	400		Assumed ACM	No
	1	11A,C-D,H (comp fl. pnls on cart)	Floor Tile (12"x12", tan w/streaks)	3650		Assumed ACM	No
	1	Women's Lounge	Floor Tile (12"x12", tan mottled)	120		Assumed ACM	No
	1	121, 142, 144-9	Floor Tile (12"x12", red)	1250		Assumed ACM	No
	1	123	Floor Tile (12"x12", blue)	195		Assumed ACM	No
	1	140-1, 140A-F, 141A-D	Transite/E Panels	3940		Assumed ACM	No
	1	Various (too many to list)	Drywall w/joint Compound	13160		Assumed ACM	No
<b>Cafeteria/</b>	1	130A, 135	Pipe Insulation (corrugated)	25		40%; Chrysotile	Yes
<b>Admin</b>	1	134 (on 2 units)	Tank Insulation	235		80%; Chrysotile*	Yes
<b>Wing</b>	1	130, 131	Floor Tile (12"x12", tan mottled)	1100		Assumed ACM	No
	1	130A, 136	Floor Tile (12"x12", white mottled)	320		Assumed ACM	No
	1	132, 132A	Floor Tile (9"x9", brown)	260		Assumed ACM	No
	1	131, 135, 135A	Plaster (ceiling)	1390		Assumed ACM	No
	Roof	Roof	Asphalt Tar Paper Roofing	6800		Assumed ACM	No
	Roof	(perimeters, penetrations)	Roof Flashing	560		Assumed ACM	No
	1	130-1, 130A, 135D, 132A, 132	Drywall w/joint Compound	3460		Assumed ACM	No
<b>CAS Bldg</b>	1	120	12" Floor Tile (tan speck)	1500		Assumed ACM	No
	1, 2	200, 110	Lab Bench Top	250		Assumed ACM	No
	1	112	12" Floor Tile (dark tan)	480		Assumed ACM	No
	1	100, 100A	12" Floor Tile (tan)	200		Assumed ACM	No
<b>COB Bldg</b>	1	105	Pipe Insulation Hangers (putty)		4	2%; Chrysotile	No
	1, 2	All	Ceiling Tiles (elongated pits w/pinholes)	9000		5%; Amosite	Yes
	1, 2	Various	Floor Tile (9"x9", tan)	4655		Assumed ACM	No
	1	105	Vibration Isolation Cloth	2		Assumed ACM	Yes
	1, 2	Various	Transite/E Panels	10120		Assumed ACM	No
	1	127, 128	Lab Table Tops	105		Assumed ACM	No
	1	127 (patch)	Floor Tile (12"x12", tan)	15		Assumed ACM	No
	1, 2	Various	Floor Tile (12"x12", white)	190		Assumed ACM	No
	1	109	Floor Tile (12"x12", gray)	345		Assumed ACM	No
	2	hall 200 (near men's room)	Floor Tile (12"x12", red)	85		Assumed ACM	No
	2	222	Floor Tile (12"x12", white w/gray specks)	300		Assumed ACM	No
	Roof	(under rubber membrane)	Asphalt Tar Paper Roofing	5400		Assumed ACM	No
	Roof	(perim, under rubber membrane)	Roof Flashing	720		Assumed ACM	No
<b>Cooling Tower</b>	Exterior	Cooling Tower	Transite/E Panels	12000		Assumed ACM	No
<b>Pump House</b>							

Building	Floor	Room No.	Description	Quantity		Total Asbestos Percentage	Friable
				SF	LF		
CS Bldg	2-3, Roof	Various	Duct Insulation (w/silver paint - roof only)	8415		2%; Chrysotile	Yes
	B-2	Various	Pipe Insulation Fittings a/w Fiberglass P.I.		275	60%; Chrysotile	Yes
	1	106, 104, 103, N 100 hall	Pipe Insulation Fittings a/w Block P.I.		7	70%; Chrysotile	Yes
	1	103, 104, 106, 107, 108	Floor Tile (9"x9", red/brown)	2210		Assumed ACM	No
	1, 2	100 hall; 2nd fl. Stairwell	Floor Tile (12"x12", red)	2095		Assumed ACM	No
	1, 2	103, 105, 107, 211	Lab Table Tops	340		Assumed ACM	Yes
	1-3	Various	Transite/E Panels	45030		Assumed ACM	No
	3	Ceiling of 102A (PLT area)	Pipe Insulation (unknown type)	60		Assumed ACM	Yes
	3	Ceiling of 102A (PLT area)	Pipe Insulation Fittings (unknown type)		3	Assumed ACM	Yes
	2	PDX Control , Annex/235	Floor Tile (12"x12", white)	300		Assumed ACM	No
	1, 2	Various	Floor Tile (9"x9", red)	1680		Assumed ACM	No
	2	202-C2, 201-C1	Floor Tile (12"x12", white)	1470		Assumed ACM	No
	2	202-C2, 201-C1	Floor Tile (12"x12", light red)	1470		Assumed ACM	No
Engineering Wing	Roof	(perimeters, penetrations)	Flashing Cement	200		5%; Chrysotile	No
	1, 2	Stairwells, 2nd fl. Janitor's Closet	12" Floor Tile (gray)	150		Assumed ACM	No
	2	280, 208	12" Floor Tile (tan)	1100		Assumed ACM	No
	2	280, 208	Lab Bench Top	150		Assumed ACM	No
	2	280	Transite/E (fume hood liner)	80		Assumed ACM	No
ESU	1, 2	SCBA , Stairs and Stairwell	12" Floor Tile (tan)	325		Assumed ACM	No
	1	Kitchen Area	12" Floor Tile (red)	50		Assumed ACM	No
	Roof	Roof	Membrane Roof	3100		Assumed ACM	No
FCPC Bldg	Roof	Roof	Flashing Cement	800		15%; Chrysotile	No
	2	243, 242	Lab Bench Top	300		Assumed ACM	No
	2	243	Transite/E (Fume Hood Liner)	80		Assumed ACM	No
	2	242	Linoleum	80		Assumed ACM	No
	2	239-40, 236-7, 233-4, E hall	12" Floor Tile (tan & white)	3500		Assumed ACM	No
Hot Cell/ NB Test Cell	1	Hot Cell Area	Floor Tile (12"x12", white)	1275		Assumed ACM	No
	B	Instrument	Floor Tile (12"x12", White with tan streaks)	190		Assumed ACM	No
	1	Clean Rm, Clean Rm Entr	Linoleum (with/gray)	910		Assumed ACM	No
L Wing Addition	Roof	Roof	Flashing Cement	130		10%; Chrysotile	No
	1,2	Various	12" Floor Tile (gray speck)	3500		Assumed ACM	No
	2	255, 253	Lab Bench Tops	250		Assumed ACM	No
	2	253, 255	12" Floor Tile (dark tan)	750		Assumed ACM	No
Laboratory Bldg	1, 2	Throughout Building	Hard Fittings on Fiberglass		540	10%; Chrysotile	Yes
	1	Hall	9" Floor Tile (tan)	1400		Assumed ACM	No
	1	Hall	9" Floor Tile (red)	1250		Assumed ACM	No
	1, 2	Throughout	9" Floor Tile (beige)	16525		Assumed ACM	No
	1	109	Drywall w/joint Compound	120		Assumed ACM	
	1, 2	213, 214	12" Floor Tile (gray)	450		Assumed ACM	No
	1, 2	131, E Hall; 2-Stair, 280A	12" Floor Tile (black)	170		Assumed ACM	No
	1, 2	111; 2-hall	12" Floor Tile (gray speck)	300		Assumed ACM	No
	1, 2	Various (too many to list)	Lab Bench Top	900		Assumed ACM	No
	1, 2	116, 216	9" Floor Tile (gray)	300		Assumed ACM	No

Building	Floor	Room No.	Description	Quantity		Total Asbestos Percentage	Friable
				SF	LF		
<b>Laboratory Bldg(Cont'd)</b>	1	116B	9" Floor Tile (black)	80		Assumed ACM	No
	1	115	9" Floor Tile (tan speck)	80		Assumed ACM	No
	1, 2	Stairs; 2-hall, 210	12" Floor Tile (tan speck)	2300		Assumed ACM	No
	1, 2	1 - 112	9" Floor Tile (yellow)	650		Assumed ACM	No
	1	112	9" Floor Tile (dark tan)	50		Assumed ACM	No
	1, 2	1st fl. near stairs; 217	12" Floor Tile (red)	250		Assumed ACM	No
	1, 2	122, 217, 254	Transite/E Shelves and Fume Hood	160		Assumed ACM	No
	2	219A-D	12" Floor Tile (light tan)	600		Assumed ACM	No
	2	251, 280A	12" Floor Tile (dark tan)	750		Assumed ACM	No
<b>LSB East Wing</b>	Roof	Roof, PH Roof	Roof Flashing Sealant	890		10%; Chrysotile	No
	B	Various	Floor Tile (12"x12" Tan)	2490		Assumed ACM	No
	1-3	Various	Floor Tile (12"x12" beige)	2715		Assumed ACM	No
	B, 1	B - Throughout, 120	Plaster	12425		Assumed ACM	No
	1	120	Plaster (textured)	1000		Assumed ACM	No
	B	20	Lab Table Tops	45		Assumed ACM	No
<b>LSB West Wing</b>	Roof	Roof	Flashing Cement	600		10%; Chrysotile	No
	1-3	Throughout Building	Drywall w/joint Compound	105000		Assumed ACM	No
	2	279	12" Floor Tile (tan)	120		Assumed ACM	No
<b>Maint Bldg</b>	1	Boiler, 137A, 131, Weld Shp, Office	Hard Fittings on Fiberglass		130	20%; Chrysotile	Yes
	Roof	(North Addition)	Flashing Cement	830		20%; Chrysotile	No
	Roof	over Trans. Services	Flashing Cement	200		20%; Chrysotile	No
	1	Boiler, HVAC Shp, H2O Tt Lab	Pipe Insulation Fittings on Suspect Lines		15	30%; Chrysotile	Yes
	Roof	over Boiler Rm., S Weld Shop	Composite Roofing (tar & gravel)	5800		5%; Chrysotile	No
	Roof	over Boiler, S Weld Shop	Flashing Cement	405		5%; Chrysotile	No
	1	Boiler, H2O Tt Lab, HVAC Shp	Block Pipe Insulation		80	55%; Chrysotile*	Yes
	1	Boiler	Header Pipe Insulation (Boiler 2&3)		50	75%; Chrysotile*	Yes
	1	Boiler	Stack Insulation	250		Assumed ACM	Yes
	1	EMCS Off, 118, 104, 133, Pln & Rec	Sound Absorbant Wall Panels	1700		Assumed ACM	No
	1	Water Treatment Lab	Lab Bench Top	40		Assumed ACM	No
	1	H2O Tt Lab, EMS Office, Locker	12" Floor Tile (gray)	650		Assumed ACM	No
	1	Boiler, Restroom	12" Floor Tile (red)	40		Assumed ACM	No
	1	139, 137, 115, hall 115A, Office	12" Floor Tile (white)	1000		Assumed ACM	No
	1	Lkr, Mens, Elec Shop, hall	12" Floor Tile (tan)	400		Assumed ACM	No
	1, 2	117, 119, 115/A, 105-6, 122, 211	Drywall w/joint Compound	1850		Assumed ACM	No
	1	115/A, hall	Transite/E Panels	550		Assumed ACM	No
	1	Hall, Office Area	12" Floor Tile (white w/tan)	1600		Assumed ACM	No
	1	105, 105A, 103, 103A	12" Floor Tile (tan specks)	800		Assumed ACM	No
	1	108, 110	12" Floor Tile (tan, brown, white)	50		Assumed ACM	No
<b>Materials Storage</b>	1	100A	Drywall w/joint Compound	720		Assumed ACM	No
<b>MG Bldg</b>	B, 1	Throughout Building	Pipe Insulation Fittings (on Roof Drain Lines)		100	10%; Chrysotile	Yes
	1	near deionized H2O tank	Lagging Canvas & Tar Paper on Fiberglass		20	10%; Chrysotile	No
	B, 1	Throughout Building	Compressed Pipe Insulation (on Roof drains)		800	2%; Chrysotile	Yes
	B, 1	Throughout Building	Compressed Pipe Insulation (on Roof drains)		800	2%; Chrysotile	Yes

Building	Floor	Room No.	Description	Quantity		Total Asbestos Percentage	Friable
				SF	LF		
<b>MG Bldg(Cont'd)</b>	B, 1	Throughout	Gray Sealant on Foam Insulation	500		60%; Chrysotile	Yes
	B, 1	All; Ext-Recitifier Walls, UCA	Transite/E Panels	600000		Assumed ACM	No
	1	Beneath Observation Booth	1' Spline Ceiling Tile	800		Assumed ACM	Yes
	1	Control Room	9" Floor Tile (tan)	2000		Assumed ACM	No
	1	Control Room	12" Floor Tile (gray)	80		Assumed ACM	No
<b>Mock-up Bldg</b>	1	109-11	Drywall w/joint Compound	1000		Assumed ACM	No
	1	113	12" Floor Tile (white speck)	850		Assumed ACM	No
<b>NBPC Bldg</b>	Roof	Roof	Flashing Cement	300		15%; Chrysotile	No
	2	233-8	12" Floor Tile (white speck)	1800		Assumed ACM	No
	2	Mens, Ladies	12" Floor Tile (tan)	100		Assumed ACM	No
	B	38	Lab Bench Top	65		Assumed ACM	No
<b>PLT</b>	Roof	Roof	Flashing	180		10%; Chrysotile	No
<b>Power Bldg</b>	Roof	Roof	Composite Roofing (tar & gravel)	4000		5%; Chrysotile	No
<b>Bldg</b>	1	Main	Transite/E Panels	4300		Assumed ACM	No
<b>Receiving # 3</b>	1	Whse, 108, 102 (poss in bath walls)	Pipe Insulation Fittings a/w Fiberglass P.I.		65	40%; Chrysotile	Yes
	1	107A-B	Floor Tile (12"x12' white)	1000		Assumed ACM	No
	1	Hall (entrance)	Floor Tile (12"x12", tan)	20		Assumed ACM	No
	1	Hall, 100 (patch)	Floor Tile (9"x9", tan)	260		Assumed ACM	No
	1	104, 105, 109, 100 (patch)	Floor Tile (12"x12", red)	185		Assumed ACM	No
<b>Receiving #4</b>	2	151	Floor Tile (12"x12", white)	530		Assumed ACM	No
<b>RF Bldg</b>	1-4, Roof	Various	Pipe Insulation Fittings a/w Fiberglass P.I.		820	20%; Chrysotile	Yes
	4	400 (units 3&4)	Chiller Insulation (end caps)	20		30%; Chrysotile	Yes
	1	104A	Floor Tile (12"x12", white)	200		Assumed ACM	No
	1-3, Roof	Various	Transite/E Panels	98270		Assumed ACM	No
	1	101 (on equip in area)	Tank Insulation (cloth wrap)	55		Assumed ACM	Yes
	1-3	105, 230, 252, 342	Floor Tile (12"x12", red)	1550		Assumed ACM	No
	1	106A	Floor Tile (12"x12", white w/specks)	120		Assumed ACM	No
	2	237, Mens/Ladies	Floor Tile (12"x12", brown)	120		Assumed ACM	No
	2, 3	229, 340	Lab Table Tops	65		Assumed ACM	No
	2	Throughout 238-52	Floor Tile (9"x9", red)	3300		Assumed ACM	No
	3	320 (NW section of room)	Floor Tile (12"x12", tan)	490		Assumed ACM	No
3	380 (old fenced area)	Floor Tile (12"x12", blue)	65		Assumed ACM	No	
<b>Shop Bldg</b>	1, 2	Various	Pipe Insulation Fittings a/w Fiberglass P.I.		400	20%; Chrysotile	Yes
	1	119	Vibration Isolation Cloth	20		50%; Chrysotile	Yes
	1	109C	Pipe Insulation Fitting a/w Block P.I.		1	70%; Chrysotile	Yes
	1	119	Tank Insulation	35		80%; Amosite*	Yes
	1, 2	Various	Floor Tile (12"x12", red)	2080		Assumed ACM	No
	1	102A, 107A, 107	Floor Tile (9"x9", red)	975		Assumed ACM	No
	1	107A (replacement tiles)	Floor Tile (9"x9", black)	50		Assumed ACM	No
	1	110	Floor Tile (12"x12", tan)	350		Assumed ACM	No
	1, 2	110 (replmt tiles), 109A; New hall 200	Floor Tile (12"x12", white w/brown streaks)	1100		Assumed ACM	No
	1	110 (border of room)	Floor Tile (12"x12", black)	80		Assumed ACM	No
	1	116	Floor Tile (12"x12", white)	90		Assumed ACM	No
1	117	Floor Tile (12"x12", tan mottled)	75		Assumed ACM	No	

Building	Floor	Room No.	Description	Quantity		Total Asbestos	
				SF	LF	Percentage	Friable
<b>Shop Bldg</b>	2	Corridor 200	Floor Tile (12"x12", white w/tan streaks)	715		Assumed ACM	No
	2	231-3	Floor Tile (12"x12", blue)	1260		Assumed ACM	No
<b>System Test</b>	1, 2	Throughout Building	Pipe Insulation Fittings a/w Fiberglass P.I.		40	30%; Chrysotile	Yes
<b>(Exper</b>	1, 2	Area 002; ESAT 1	Lab Bench Top	150		Assumed ACM	No
<b>Power</b>	2	Restroom (Upper level)	12" Floor Tile (light green)	50		Assumed ACM	No
<b>ESAT)</b>	2	Restroom Storage	Drywall w/joint Compound	550		Assumed ACM	No
	1, 2	Area 002; ESAT 2	9" Floor Tile (tan)	750		Assumed ACM	No
<b>TFTR</b>	Roof	Pump House	Flashing Cement	250		10%; Chrysotile	No
<b>Cooling</b>	1, Roof	Cooling Tower	Transite/E Panels	20000		Assumed ACM	No
<b>Tower</b>							
<b>Pump house</b>							
<b>TFTR MG</b>	1	Control	12" Floor Tile (white)	2100		Assumed ACM	No
<b>Bldg</b>	1	Control, Men's	Drywall w/joint Compound	125		Assumed ACM	No
<b>TFTR</b>	DA, B	D43-013, D43-034	Floor Tile (12"x12", white w/gray streaks)	1075		Assumed ACM	No
<b>Test Cell</b>	B	Various	Floor Tile (12"x12", White w/tan streaks)	1780		Assumed ACM	No
<b>Theory</b>	1	172, Women's & Men's Rm	Floor Tile (12"x12", white)	125		Assumed ACM	No
<b>Wing</b>	1	All	Drywall w/joint Compound	13100		Assumed ACM	No