# MICHIGAN STATE UNIVERSITY

# ASBESTOS INSPECTION REPORT FOR SHAW LANE POWER PLANT

**OCTOBER 2006** 



Ann Arbor, MI 48105 (734) 930-0995



5340 PLYMOUTH RD. SUITE 210 ANN ARBOR, MICHIGAN 48105 734-930-0995

October 13, 2006

Mr. Andrew D. Smith
Environmental Technician
Office of Environmental & Occupational Safety
Michigan State University
150 Giltner Hall
East Lansing, MI 48824-1101

Dear Mr. Smith:

The following is the asbestos-containing material (ACM) Survey Report for Michigan State University's Shaw Lane Power Plant, Building #61.

This ACM Survey Report, prepared by Nova Environmental, Inc., is separated into the following sections:

Section I

Background/Survey Information

Section II

Inspection Results

Section III

Laboratory Results

Section IV

Facility Information/Diagrams

Section V

Qualifications/Certifications & General Disclaimer Statement

Section VI

Photo Documentation

If you have any questions or concerns regarding the information presented within this report, please feel free to contact me at (734) 390-0995.

Thank you for choosing Nova Environmental, Inc.

Sincerely,

NOVAÆNVIRONMENTAL, INC.

Kary S. Amin Vice President

KSA/ij



# Michigan State University Shaw Lane Power Plant Building #61

# Section I Background/Inspection Information

## Background:

On Monday, October 9, 2006, representatives of Nova Environmental, Inc. conducted an Asbestos-Containing Materials (ACM) Building Survey within the Shaw Lane Power Plant. The intent of this Survey was to determine potential asbestos content within interior accessible building materials/components.

During the on-site inspection phase, Nova collected a total of 37 bulk samples. Each of these samples was analyzed under Polarizing Light Microscopy (PLM) by EMSL Analytical, Inc., an accredited laboratory, utilizing EPA 600/R-93/116 Method. Bulk samples analyzed <1% asbestos were subsequently analyzed using the point count method. All laboratory result sheets are located in Section III of this report.

It should be noted that the following factors were realized during the inspection phase:

- Nova Environmental, Inc. only collected bulk samples of accessible suspect ACM building components. Nova conducted no destructive sampling, therefore, no inaccessible materials are included as part of this report.
- ➤ In accordance with the Request for Quotation (RFQ) 73316, no roofing materials were bulk sampled or included as part of this report.
- ➤ In accordance with instruction provided during the bidding process, no exterior materials, concrete, cinderblock, brick, mortar, ceramic or non-building components were bulk sampled or included as part of this report. Further inspection of these materials and inaccessible areas may be necessary prior to any renovation or demolition in order to comply with the EPA NESHAP and OSHA Asbestos Construction Industry Standards.
- > All quantities listing within this report are approximates only.

A General Disclaimer Statement regarding this ACM Survey is located in Section V of this report.

#### **Inspection Information:**

All bulk samples were collected by Michigan Accredited Asbestos Inspectors in accordance with 40 CFR Part 763 of the EPA's AHERA regulation. This sampling strategy is required according to 29 CFR Part 1910.1001 and 1926.1101 of the OSHA Asbestos General Industry and Construction Standards for public and commercial buildings.

There are several terms/phrases that are identified in the various EPA and OSHA asbestos regulations, which are used within this ACM Survey report. They are as follows:

# - Asbestos-Containing Material (ACM):

Refers to a material, which contains more than 1% asbestos. If a given material contains over 1% asbestos, it is considered asbestos by all federal and state government agencies. If the material contains less than or equal to 1 % asbestos, it is legally non-asbestos.

#### - Friable:

Refers to the ability of the material to crumple or pulverize under hand pressure when dry.

## - Functional Space (FS):

Means a room, group of rooms or separate independent area, such as hallways, restrooms, etc.

### - Functional Space Number:

A number, assigned to each functional space by either the building owner or Nova.

## - Homogeneous Area (HA):

Refers to a material that is uniform in color and texture.

# - Homogeneous Area Number:

A number, assigned to each homogeneous area by the Nova Inspector(s).

#### Miscellaneous Material:

Any material, which is not classified as thermal system insulation or surfacing material.

## Surfacing Material:

Means material that is sprayed trowelled-on or otherwise applied to surfaces, (such as acoustical plaster on ceilings and fireproofing materials on structural members, or other materials on surfaces for acoustical, fireproofing, and other purposes).

## - Thermal System Insulation (TSI):

Means ACM applied to pipes, fittings, boilers, breeching, tanks, ducts or other structural components to prevent heat loss or gain.

#### - Units:

Units of measurement in either square feet, linear feet or totals, such as a total count of a given material or component.



# Michigan State University Shaw Lane Power Plant Building #61

# Section II Inspection Results

This section is delineated into three separate sub-sections. Included in each sub-section are FS# or functional space numbers, FS Description, Material Description, amount of material present, whether the material is positive, negative or assumed asbestos and its present status. Please note that within the sub-sections all materials tested **positive** or **assumed** to be asbestos are in bold, while all materials tested negative for asbestos are in regular type.

A listing and description of each sub-section follows:

# > Homogeneous Area Listing

This listing provides a complete material listing with total building quantities as well as whether the material contains asbestos, is assumed or is negative for asbestos-containing material.

# > List by Functional Space Number

This listing provides all inspection information organized by functional space.

# > List by Positive, Assumed, Negative Homogeneous Areas

This listing provides all homogeneous areas, or material description, that are positive for asbestos or assumed to be asbestos first, organized by functional space. The homogeneous areas that were tested negative for asbestos and corresponding functional spaces follow.

# List by Homogeneous Areas

This listing provides all inspection information organized by homogeneous area, or material description.

The laboratory results are located in Section III of this Report.

# Michigan State University Shaw Lane Power Plant Homogeneous Area Listing

Straigh Pipe Insulation	ACM Description	HA#	Total Quantities Units	Asbestos
Tank Insualtion   3	Straigh Pipe Insulation	1	5427 Ln. Ft.	Positive
Boiler Skin   4   10800 Sq. Ft.   Positive	Mud Fittings	2	849 Total	Positive
Fire Brick         6         4850 Sq. Ft.         Negative           Door Window Glaze         7         193 Ln. Ft.         Negative           Window Caulk 1         9         1730 Ln. Ft.         Positive           Window Caulk 1         9         1730 Ln. Ft.         Positive           Electrical Wrap         10         600 Ln. Ft.         Positive           HVAC Fabric         11         120 Ln. Ft.         Positive           Exhaust Insulation         12         240 Sq. Ft.         Positive           Canvas Wrap         13         60 Ln. Ft.         Positive           Gaskets         14         460 Total         Positive           Expansion Caulk         15         600 Ln. Ft.         Positive           Hopper Caulk         16         24 Ln. Ft.         Positive           Black Foam Insulation         17         Negative           Window Caulk 2         18         364 Ln. Ft.         Negative           Window Glaze 2         19         462 Ln. Ft.         Positive           Electrical Transite         21         50 Sq. Ft.         Positive           Electrical Insulators         22         100 Sq. Ft.         Positive           Door Caulk         23 <td>Tank Insualtion</td> <td>3</td> <td>1150 Sq. Ft.</td> <td>Positive</td>	Tank Insualtion	3	1150 Sq. Ft.	Positive
Fire Brick         6         4850 Sq. Ft.         Negative           Door Window Glaze         7         193 Ln. Ft.         Negative           Window Caulk 1         9         1730 Ln. Ft.         Positive           Window Caulk 1         9         1730 Ln. Ft.         Positive           Electrical Wrap         10         600 Ln. Ft.         Positive           HVAC Fabric         11         120 Ln. Ft.         Positive           Exhaust Insulation         12         240 Sq. Ft.         Positive           Canvas Wrap         13         60 Ln. Ft.         Positive           Gaskets         14         460 Total         Positive           Expansion Caulk         15         600 Ln. Ft.         Positive           Hopper Caulk         16         24 Ln. Ft.         Positive           Black Foam Insulation         17         Negative           Window Caulk 2         18         364 Ln. Ft.         Negative           Window Glaze 2         19         462 Ln. Ft.         Positive           Electrical Transite         21         50 Sq. Ft.         Positive           Electrical Insulators         22         100 Sq. Ft.         Positive           Door Caulk         23 <td>Boiler Skin</td> <td>4</td> <td>10800 Sq. Ft.</td> <td>Positive</td>	Boiler Skin	4	10800 Sq. Ft.	Positive
Door Window Glaze   7   193 Ln. Ft.   Negative   Window Glaze 1   8   5400 Ln. Ft.   Positive   Window Caulk 1   9   1730 Ln. Ft.   Positive   Electrical Wrap   10   600 Ln. Ft.   Positive   HVAC Fabric   11   120 Ln. Ft.   Positive   Exhaust Insulation   12   240 Sq. Ft.   Positive   Exhaust Insulation   12   240 Sq. Ft.   Positive   Gaskets   14   460 Total   Positive   Expansion Caulk   15   600 Ln. Ft.   Positive   Expansion Caulk   15   600 Ln. Ft.   Positive   Expansion Caulk   15   600 Ln. Ft.   Positive   Hopper Caulk   16   24 Ln. Ft.   Positive   Electrical Insulation   17   Negative   Window Caulk 2   18   364 Ln. Ft.   Negative   Window Glaze 2   19   462 Ln. Ft.   Positive   Electrical Wrap 2   20   350 Ln. Ft.   Positive   Electrical Transite   21   50 Sq. Ft.   Positive   Electrical Insulators   22   100 Sq. Ft.   Positive   Electrical Insulators   22   100 Sq. Ft.   Positive   Bushing Caulk   23   114 Ln. Ft.   Positive   Pos	Fire Brick	6		Negative
Window Caulk 1         9         1730 Ln. Ft. Positive         Positive           Electrical Wrap         10         600 Ln. Ft. Positive           HVAC Fabric         11         120 Ln. Ft. Positive           Exhaust Insulation         12         240 Sq. Ft. Positive           Canvas Wrap         13         60 Ln. Ft. Positive           Gaskets         14         460 Total Positive           Expansion Caulk         15         600 Ln. Ft. Positive           Hopper Caulk         16         24 Ln. Ft. Positive           Black Foam Insulation         17         Negative           Window Caulk 2         18         364 Ln. Ft. Positive           Window Glaze 2         19         462 Ln. Ft. Positive           Electrical Wrap 2         20         350 Ln. Ft. Positive           Electrical Transite         21         50 Sq. Ft. Positive           Electrical Insulators         22         100 Sq. Ft. Positive           Door Caulk         23         114 Ln. Ft. Positive           Bushing Caulk         24         75 Total Positive           9" x 9" Floor Tile Tan and Brown         25         202 Sq. Ft. Positive           Mastic of 9" x 9" Floor Tile Tan and Brown         26         202 Sq. Ft. Negative           M	Door Window Glaze	7		Negative
Electrical Wrap   10   600 Ln. Ft. Positive	Window Glaze 1	8	5400 Ln. Ft.	Positive
HVAC Fabric   11   120 Ln. Ft.   Positive	Window Caulk 1	9	1730 Ln. Ft.	Positive
Exhaust Insulation         12         240 Sq. Ft.         Positive           Canvas Wrap         13         60 Ln. Ft.         Positive           Gaskets         14         460 Total         Positive           Expansion Caulk         15         600 Ln. Ft.         Positive           Hopper Caulk         16         24 Ln. Ft.         Positive           Black Foam Insulation         17         Negative           Window Caulk 2         18         364 Ln. Ft.         Positive           Window Glaze 2         19         462 Ln. Ft.         Positive           Window Glaze 2         19         462 Ln. Ft.         Positive           Electrical Wrap 2         20         350 Ln. Ft.         Positive           Electrical Transite         21         50 Sq. Ft.         Positive           Electrical Insulators         22         100 Sq. Ft.         Positive           Door Caulk         23         114 Ln. Ft.         Positive           Bushing Caulk         24         75 Total         Positive           9" x 9" Floor Tile Tan and Brown         25         202 Sq. Ft.         Positive           Mastic of 9" x 9" Floor Tile Tan and Brown         26         202 Sq. Ft.         Negative	Electrical Wrap	10	600 Ln. Ft.	Positive
Canvas Wrap         13         60 Ln. Ft.         Positive           Gaskets         14         460 Total         Positive           Expansion Caulk         15         600 Ln. Ft.         Positive           Hopper Caulk         16         24 Ln. Ft.         Positive           Black Foam Insulation         17         Negative           Window Caulk 2         18         364 Ln. Ft.         Negative           Window Glaze 2         19         462 Ln. Ft.         Positive           Electrical Wrap 2         20         350 Ln. Ft.         Positive           Electrical Transite         21         50 Sq. Ft.         Positive           Electrical Insulators         22         100 Sq. Ft.         Positive           Door Caulk         23         114 Ln. Ft.         Positive           Bushing Caulk         24         75 Total         Positive           9" x 9" Floor Tile Tan and Brown         25         202 Sq. Ft.         Positive           Mastic of 9" x 9" Floor Tile Tan and Brown         26         202 Sq. Ft.         Negative           6" Black Covebase         27         52 Ln. Ft.         Negative           Mastic of 6" Black Covebase         28         52 Ln. Ft.         Negative	HVAC Fabric	11	120 Ln. Ft.	Positive
Gaskets         14         460 Total         Positive           Expansion Caulk         15         600 Ln. Ft.         Positive           Hopper Caulk         16         24 Ln. Ft.         Positive           Black Foam Insulation         17         Negative           Window Caulk 2         18         364 Ln. Ft.         Negative           Window Glaze 2         19         462 Ln. Ft.         Positive           Electrical Wrap 2         20         350 Ln. Ft.         Positive           Electrical Transite         21         50 Sq. Ft.         Positive           Electrical Insulators         22         100 Sq. Ft.         Positive           Door Caulk         23         114 Ln. Ft.         Positive           Bushing Caulk         24         75 Total         Positive           9" x 9" Floor Tile Tan and Brown         25         202 Sq. Ft.         Positive           Mastic of 9" x 9" Floor Tile Tan and Brown         26         202 Sq. Ft.         Negative           Mastic of 6" Black Covebase         27         52 Ln. Ft.         Negative           Mastic of 6" Black Covebase         28         52 Ln. Ft.         Negative           Gluepod of 1' x 1' Ceiling Panel         30         202 Sq. Ft.	Exhaust Insulation	12	240 Sq. Ft.	Positive
Expansion Caulk         15         600 Ln. Ft.         Positive           Hopper Caulk         16         24 Ln. Ft.         Positive           Black Foam Insulation         17         Negative           Window Caulk 2         18         364 Ln. Ft.         Negative           Window Glaze 2         19         462 Ln. Ft.         Positive           Electrical Wrap 2         20         350 Ln. Ft.         Positive           Electrical Transite         21         50 Sq. Ft.         Positive           Electrical Insulators         22         100 Sq. Ft.         Positive           Door Caulk         23         114 Ln. Ft.         Positive           Bushing Caulk         24         75 Total         Positive           9" x 9" Floor Tile Tan and Brown         25         202 Sq. Ft.         Positive           Mastic of 9" x 9" Floor Tile Tan and Brown         26         202 Sq. Ft.         Negative           Mastic of 6" Black Covebase         27         52 Ln. Ft.         Negative           Mastic of 6" Black Covebase         28         52 Ln. Ft.         Negative           Gluepod of 1' x 1' Ceiling Panel         29         202 Sq. Ft.         Positive           Threshold         31         3 Ln. Ft.	Canvas Wrap	13	60 Ln. Ft.	Positive
Hopper Caulk         16         24 Ln. Ft.         Positive           Black Foam Insulation         17         Negative           Window Caulk 2         18         364 Ln. Ft.         Negative           Window Glaze 2         19         462 Ln. Ft.         Positive           Electrical Wrap 2         20         350 Ln. Ft.         Positive           Electrical Transite         21         50 Sq. Ft.         Positive           Electrical Insulators         22         100 Sq. Ft.         Positive           Door Caulk         23         114 Ln. Ft.         Positive           Bushing Caulk         24         75 Total         Positive           9" x 9" Floor Tile Tan and Brown         25         202 Sq. Ft.         Positive           Mastic of 9" x 9" Floor Tile Tan and Brown         26         202 Sq. Ft.         Negative           Mastic of 6" Black Covebase         27         52 Ln. Ft.         Negative           Mastic of 6" Black Covebase         28         52 Ln. Ft.         Negative           I'x 1' Ceiling Panel         29         202 Sq. Ft.         Positive           Gluepod of 1'x 1' Ceiling Panel         30         202 Sq. Ft.         Negative           Threshold         31         3 Ln. Ft. <td></td> <td>14</td> <td>460 Total</td> <td>Positive</td>		14	460 Total	Positive
Black Foam Insulation         17         Negative           Window Caulk 2         18         364 Ln. Ft.         Negative           Window Glaze 2         19         462 Ln. Ft.         Positive           Electrical Wrap 2         20         350 Ln. Ft.         Positive           Electrical Transite         21         50 Sq. Ft.         Positive           Electriacl Insulators         22         100 Sq. Ft.         Positive           Door Caulk         23         114 Ln. Ft.         Positive           Bushing Caulk         24         75 Total         Positive           9" x 9" Floor Tile Tan and Brown         25         202 Sq. Ft.         Positive           Mastic of 9" x 9" Floor Tile Tan and Brown         26         202 Sq. Ft.         Negative           6" Black Covebase         27         52 Ln. Ft.         Negative           Mastic of 6" Black Covebase         28         52 Ln. Ft.         Negative           Gluepod of 1' x 1' Ceiling Panel         29         202 Sq. Ft.         Positive           Gluepod of 1' x 1' Ceiling Panel         30         202 Sq. Ft.         Negative           Drywall Ceiling         32         202 Sq. Ft.         Negative           Heater Expansion Joint         33	Expansion Caulk	15	600 Ln. Ft.	Positive
Window Caulk 2         18         364 Ln. Ft.         Negative           Window Glaze 2         19         462 Ln. Ft.         Positive           Electrical Wrap 2         20         350 Ln. Ft.         Positive           Electrical Transite         21         50 Sq. Ft.         Positive           Electrical Insulators         22         100 Sq. Ft.         Positive           Door Caulk         23         114 Ln. Ft.         Positive           Bushing Caulk         24         75 Total         Positive           9" x 9" Floor Tile Tan and Brown         25         202 Sq. Ft.         Positive           Mastic of 9" x 9" Floor Tile Tan and Brown         26         202 Sq. Ft.         Negative           6" Black Covebase         27         52 Ln. Ft.         Negative           Mastic of 6" Black Covebase         28         52 Ln. Ft.         Negative           I'x 1' Ceiling Panel         29         202 Sq. Ft.         Negative           Gluepod of 1' x 1' Ceiling Panel         30         202 Sq. Ft.         Positive           Threshold         31         3 Ln. Ft.         Positive           Drywall Ceiling         32         202 Sq. Ft.         Negative           Heater Expansion Joint         33	Hopper Caulk	16	24 Ln. Ft.	Positive
Window Glaze 2         19         462 Ln. Ft. Positive           Electrical Wrap 2         20         350 Ln. Ft. Positive           Electrical Transite         21         50 Sq. Ft. Positive           Electriacl Insulators         22         100 Sq. Ft. Positive           Door Caulk         23         114 Ln. Ft. Positive           Bushing Caulk         24         75 Total Positive           9" x 9" Floor Tile Tan and Brown         25         202 Sq. Ft. Positive           Mastic of 9" x 9" Floor Tile Tan and Brown         26         202 Sq. Ft. Negative           6" Black Covebase         27         52 Ln. Ft. Negative           Mastic of 6" Black Covebase         28         52 Ln. Ft. Negative           1' x 1' Ceiling Panel         29         202 Sq. Ft. Negative           Gluepod of 1' x 1' Ceiling Panel         30         202 Sq. Ft. Positive           Threshold         31         3 Ln. Ft. Positive           Drywall Ceiling         32         202 Sq. Ft. Negative           Heater Expansion Joint         33         4 Ln. Ft. Negative           Counter Top         34         30 Sq. Ft. Negative           Plastic Expansion Joints         35         16 Ln. Ft. Negative           Tagged Fire Door         36         2 Total Positive <td></td> <td>17</td> <td></td> <td>Negative</td>		17		Negative
Electrical Wrap 2 20 350 Ln. Ft. Positive Electrical Transite 21 50 Sq. Ft. Positive Electriacl Insulators 22 100 Sq. Ft. Positive Door Caulk 23 114 Ln. Ft. Positive Bushing Caulk 24 75 Total Positive 9" x 9" Floor Tile Tan and Brown 25 202 Sq. Ft. Positive Mastic of 9" x 9" Floor Tile Tan and Brown 26 202 Sq. Ft. Negative 6" Black Covebase 27 52 Ln. Ft. Negative Mastic of 6" Black Covebase 28 52 Ln. Ft. Negative 1' x 1' Ceiling Panel 29 202 Sq. Ft. Negative Gluepod of 1' x 1' Ceiling Panel 30 202 Sq. Ft. Positive Threshold 31 3 Ln. Ft. Positive Drywall Ceiling 32 202 Sq. Ft. Negative Heater Expansion Joint 33 4 Ln. Ft. Negative Counter Top 34 30 Sq. Ft. Negative Plastic Expansion Joints 35 16 Ln. Ft. Negative Tagged Fire Door 36 2 Total Positive Window Glaze 3 37 4000 Ln. Ft. Positive	Window Caulk 2	18	364 Ln. Ft.	Negative
Electrical Transite2150 Sq. Ft.PositiveElectriacl Insulators22100 Sq. Ft.PositiveDoor Caulk23114 Ln. Ft.PositiveBushing Caulk2475 TotalPositive9" x 9" Floor Tile Tan and Brown25202 Sq. Ft.PositiveMastic of 9" x 9" Floor Tile Tan and Brown26202 Sq. Ft.Negative6" Black Covebase2752 Ln. Ft.NegativeMastic of 6" Black Covebase2852 Ln. Ft.Negative1' x 1' Ceiling Panel29202 Sq. Ft.NegativeGluepod of 1' x 1' Ceiling Panel30202 Sq. Ft.PositiveThreshold313 Ln. Ft.PositiveDrywall Ceiling32202 Sq. Ft.NegativeHeater Expansion Joint334 Ln. Ft.NegativeCounter Top3430 Sq. Ft.NegativePlastic Expansion Joints3516 Ln. Ft.NegativeTagged Fire Door362 TotalPositiveWindow Glaze 3374000 Ln. Ft.Positive	Window Glaze 2	19	462 Ln. Ft.	
Electriacl Insulators22100 Sq. Ft.PositiveDoor Caulk23114 Ln. Ft.PositiveBushing Caulk2475 TotalPositive9" x 9" Floor Tile Tan and Brown25202 Sq. Ft.PositiveMastic of 9" x 9" Floor Tile Tan and Brown26202 Sq. Ft.Negative6" Black Covebase2752 Ln. Ft.NegativeMastic of 6" Black Covebase2852 Ln. Ft.Negative1' x 1' Ceiling Panel29202 Sq. Ft.NegativeGluepod of 1' x 1' Ceiling Panel30202 Sq. Ft.PositiveThreshold313 Ln. Ft.PositiveDrywall Ceiling32202 Sq. Ft.NegativeHeater Expansion Joint334 Ln. Ft.NegativeCounter Top3430 Sq. Ft.NegativePlastic Expansion Joints3516 Ln. Ft.NegativeTagged Fire Door362 TotalPositiveWindow Glaze 3374000 Ln. Ft.Positive	Electrical Wrap 2	20	350 Ln. Ft.	Positive
Door Caulk23114 Ln. Ft.PositiveBushing Caulk2475 TotalPositive9" x 9" Floor Tile Tan and Brown25202 Sq. Ft.PositiveMastic of 9" x 9" Floor Tile Tan and Brown26202 Sq. Ft.Negative6" Black Covebase2752 Ln. Ft.NegativeMastic of 6" Black Covebase2852 Ln. Ft.Negative1' x 1' Ceiling Panel29202 Sq. Ft.NegativeGluepod of 1' x 1' Ceiling Panel30202 Sq. Ft.PositiveThreshold313 Ln. Ft.PositiveDrywall Ceiling32202 Sq. Ft.NegativeHeater Expansion Joint334 Ln. Ft.NegativeCounter Top3430 Sq. Ft.NegativePlastic Expansion Joints3516 Ln. Ft.NegativeTagged Fire Door362 TotalPositiveWindow Glaze 3374000 Ln. Ft.Positive	Electrical Transite	21	50 Sq. Ft.	Positive
Bushing Caulk2475 TotalPositive9" x 9" Floor Tile Tan and Brown25202 Sq. Ft.PositiveMastic of 9" x 9" Floor Tile Tan and Brown26202 Sq. Ft.Negative6" Black Covebase2752 Ln. Ft.NegativeMastic of 6" Black Covebase2852 Ln. Ft.Negative1' x 1' Ceiling Panel29202 Sq. Ft.NegativeGluepod of 1' x 1' Ceiling Panel30202 Sq. Ft.PositiveThreshold313 Ln. Ft.PositiveDrywall Ceiling32202 Sq. Ft.NegativeHeater Expansion Joint334 Ln. Ft.NegativeCounter Top3430 Sq. Ft.NegativePlastic Expansion Joints3516 Ln. Ft.NegativeTagged Fire Door362 TotalPositiveWindow Glaze 3374000 Ln. Ft.Positive	Electriacl Insulators	22	100 Sq. Ft.	Positive
9" x 9" Floor Tile Tan and Brown 25 202 Sq. Ft. Positive Mastic of 9" x 9" Floor Tile Tan and Brown 6" Black Covebase 27 52 Ln. Ft. Negative Mastic of 6" Black Covebase 28 52 Ln. Ft. Negative 1' x 1' Ceiling Panel 29 202 Sq. Ft. Negative Gluepod of 1' x 1' Ceiling Panel 30 202 Sq. Ft. Positive Threshold 31 3 Ln. Ft. Positive Drywall Ceiling 32 202 Sq. Ft. Negative Heater Expansion Joint 33 4 Ln. Ft. Negative Counter Top 34 30 Sq. Ft. Negative Plastic Expansion Joints 35 16 Ln. Ft. Negative Tagged Fire Door 36 2 Total Positive Window Glaze 3	Door Caulk	23	114 Ln. Ft.	Positive
Mastic of 9" x 9" Floor Tile Tan and Brown26202 Sq. Ft.Negative6" Black Covebase2752 Ln. Ft.NegativeMastic of 6" Black Covebase2852 Ln. Ft.Negative1' x 1' Ceiling Panel29202 Sq. Ft.NegativeGluepod of 1' x 1' Ceiling Panel30202 Sq. Ft.PositiveThreshold313 Ln. Ft.PositiveDrywall Ceiling32202 Sq. Ft.NegativeHeater Expansion Joint334 Ln. Ft.NegativeCounter Top3430 Sq. Ft.NegativePlastic Expansion Joints3516 Ln. Ft.NegativeTagged Fire Door362 TotalPositiveWindow Glaze 3374000 Ln. Ft.Positive	Bushing Caulk	24	75 Total	Positive
6" Black Covebase         27         52 Ln. Ft. Negative           Mastic of 6" Black Covebase         28         52 Ln. Ft. Negative           1' x 1' Ceiling Panel         29         202 Sq. Ft. Negative           Gluepod of 1' x 1' Ceiling Panel         30         202 Sq. Ft. Positive           Threshold         31         3 Ln. Ft. Positive           Drywall Ceiling         32         202 Sq. Ft. Negative           Heater Expansion Joint         33         4 Ln. Ft. Negative           Counter Top         34         30 Sq. Ft. Negative           Plastic Expansion Joints         35         16 Ln. Ft. Negative           Tagged Fire Door         36         2 Total Positive           Window Glaze 3         37         4000 Ln. Ft. Positive	9" x 9" Floor Tile Tan and Brown	25	202 Sq. Ft.	Positive
Mastic of 6" Black Covebase         28         52 Ln. Ft.         Negative           1'x 1' Ceiling Panel         29         202 Sq. Ft.         Negative           Gluepod of 1'x 1' Ceiling Panel         30         202 Sq. Ft.         Positive           Threshold         31         3 Ln. Ft.         Positive           Drywall Ceiling         32         202 Sq. Ft.         Negative           Heater Expansion Joint         33         4 Ln. Ft.         Negative           Counter Top         34         30 Sq. Ft.         Negative           Plastic Expansion Joints         35         16 Ln. Ft.         Negative           Tagged Fire Door         36         2 Total         Positive           Window Glaze 3         37         4000 Ln. Ft.         Positive	Mastic of 9" x 9" Floor Tile Tan and Brown	26	202 Sq. Ft.	Negative
1' x 1' Ceiling Panel       29       202 Sq. Ft.       Negative         Gluepod of 1' x 1' Ceiling Panel       30       202 Sq. Ft.       Positive         Threshold       31       3 Ln. Ft.       Positive         Drywall Ceiling       32       202 Sq. Ft.       Negative         Heater Expansion Joint       33       4 Ln. Ft.       Negative         Counter Top       34       30 Sq. Ft.       Negative         Plastic Expansion Joints       35       16 Ln. Ft.       Negative         Tagged Fire Door       36       2 Total       Positive         Window Glaze 3       37       4000 Ln. Ft.       Positive	6" Black Covebase	27	52 Ln. Ft.	Negative
Gluepod of 1' x 1' Ceiling Panel30202 Sq. Ft.PositiveThreshold313 Ln. Ft.PositiveDrywall Ceiling32202 Sq. Ft.NegativeHeater Expansion Joint334 Ln. Ft.NegativeCounter Top3430 Sq. Ft.NegativePlastic Expansion Joints3516 Ln. Ft.NegativeTagged Fire Door362 TotalPositiveWindow Glaze 3374000 Ln. Ft.Positive	Mastic of 6" Black Covebase	28	52 Ln. Ft.	Negative
Gluepod of 1' x 1' Ceiling Panel30202 Sq. Ft.PositiveThreshold313 Ln. Ft.PositiveDrywall Ceiling32202 Sq. Ft.NegativeHeater Expansion Joint334 Ln. Ft.NegativeCounter Top3430 Sq. Ft.NegativePlastic Expansion Joints3516 Ln. Ft.NegativeTagged Fire Door362 TotalPositiveWindow Glaze 3374000 Ln. Ft.Positive	1' x 1' Ceiling Panel	29	202 Sq. Ft.	Negative
Drywall Ceiling         32         202 Sq. Ft.         Negative           Heater Expansion Joint         33         4 Ln. Ft.         Negative           Counter Top         34         30 Sq. Ft.         Negative           Plastic Expansion Joints         35         16 Ln. Ft.         Negative           Tagged Fire Door         36         2 Total         Positive           Window Glaze 3         37         4000 Ln. Ft.         Positive	Gluepod of 1' x 1' Ceiling Panel	30		Positive
Heater Expansion Joint         33         4 Ln. Ft.         Negative           Counter Top         34         30 Sq. Ft.         Negative           Plastic Expansion Joints         35         16 Ln. Ft.         Negative           Tagged Fire Door         36         2 Total         Positive           Window Glaze 3         37         4000 Ln. Ft.         Positive	Threshold	31	3 Ln. Ft.	Positive
Counter Top3430 Sq. Ft.NegativePlastic Expansion Joints3516 Ln. Ft.NegativeTagged Fire Door362 TotalPositiveWindow Glaze 3374000 Ln. Ft.Positive	Drywall Ceiling	32	202 Sq. Ft.	Negative
Plastic Expansion Joints 35 16 Ln. Ft. Negative Tagged Fire Door 36 2 Total Positive Window Glaze 3 37 4000 Ln. Ft. Positive	Heater Expansion Joint	33	4 Ln. Ft.	Negative
Tagged Fire Door 36 2 Total Positive Window Glaze 3 37 4000 Ln. Ft. Positive	Counter Top	34	30 Sq. Ft.	Negative
Window Glaze 3 37 4000 Ln. Ft. Positive	Plastic Expansion Joints	35	16 Ln. Ft.	Negative
	Tagged Fire Door	36	2 Total	Positive
Window Caulk 3 38 420 Ln. Ft. Negative	Window Glaze 3	37	4000 Ln. Ft.	Positive
	Window Caulk 3	38	420 Ln. Ft.	Negative