



NOTICE TO BUYER: SELLER-PROCURED INSPECTION REPORT

The following notice is given with respect to the Purchase and Sale Agreement dated _____
between _____ ("Buyer")
and **Jennifer Emira** _____ ("Seller")
concerning **17150 NE 140th Ct Redmond WA 98052** ("the Property").

Seller has given or is giving Buyer the following Inspection Report(s) concerning the Property (check all that apply):

- ☒ Whole House Inspection
- ☐ Sewer Inspection
- ☐ Pest Inspection
- ☐ Other: _____

The Inspection Report(s) are intended to be a part of any Seller Disclosure Statement (NWMLS Form 17) that is provided in this transaction, whether or not the two documents are attached to each other. The Inspection Report(s) were procured by Seller and are provided for informational and disclosure purposes only. The Inspection Report(s) are not intended to constitute a warranty, either express or implied, about the condition of the Property. Buyer is advised to procure their own inspections from professional inspectors chosen by Buyer or hire the inspectors that prepared the Inspection Report(s). Buyer has the opportunity to inspect the Property to Buyer's satisfaction.

 **Jen Emira** 03/14/23

Seller DATE

Seller DATE

Buyer's Acknowledgment of Receipt

The undersigned Buyer acknowledges receipt of the foregoing Notice and the above-referenced Inspection Report(s).

Buyer DATE

Buyer DATE

**Jennifer Emira
17150 NE 140th Ct
Redmond WA 98052**

Per the seller, the following items listed on the pre-sale inspection summary dated March 14th, 2023, are being corrected by the seller as part of preparation for sale in good faith.

1) The following actions items have been completed by seller as of 3/24/23

- a. See attached White Glove Home Improvement paid invoice.
- b. The oven has been plugged in and tested as working.
- c. All identified smoke detectors either (1) added to rooms, and (2) integrated Nest system has smoke detectors in lower and upper levels.
- d. Laundry room flooring material was replaced, and transition strip installed.

2) The Seller will correct the following items by closing:

- a. North garage door connected to garage door opener.
- b. Clean gutters.
- c. DRAIN AND WASTE PIPES: The vertical vent pipe from a waste pipe in the crawlspace is detached. This allows sewer gas to back up into the building and could allow sewage spillage. Repairs are recommended.

3) If requested in the contract, the Seller will consider addressing the following by Closing:

- a. Fire separation.
- b. Water heater secured.



White Glove Home Improvement

19522 NE 181st Street | Woodinville, Washington 98077
425.765.5856 | info@whitegloveteam.com |
<http://www.whitegloveteam.com/>

RECIPIENT:

Tony Meier

1384 Greenwich Walk Northeast
Issaquah, Washington 98029

SERVICE ADDRESS:

17150 Northeast 140th Court
Redmond, Washington 98052

Invoice #12777

Issued	Mar 24, 2023
Due	Apr 08, 2023
Paid	Mar 24, 2023

Total	\$2,669.45
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For Services Rendered

PRODUCT / SERVICE	DESCRIPTION	QTY.	UNIT PRICE	TOTAL
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Mar 23, 2023

PAID



White Glove Home Improvement

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<http://www.whitegloveteam.com/>

PRODUCT / SERVICE	DESCRIPTION	QTY.	UNIT PRICE	TOTAL
Labor	<p>-----</p> <p>CONDUIT - Done A loose electrical conduit was observed in the garage. Loose cables are vulnerable to damage. All loose cables should be secured at 4' intervals using approved cable staples.</p> <p>The junction box in the garage is not secured. This is a hazard. The junction box should be attached and secured to the framing.</p> <p>RECEPTACLES - Done There are several loose receptacles throughout the home. This is a potential shock and a fire hazard. All loose receptacles should be repaired as necessary.</p> <p>LUMINARIES - Done The deck luminaries is not working. Testing the luminaries with a voltage tester revealed that there is current to them. Light bulbs should be replaced in non-functional luminaries and then they should be tested for proper operation.</p> <p>ELECTRIC FAN ASSISTED WALL HEATERS - Done An electric fan assisted wall heater is used for heating in the laundry room bathroom. The heater was tested and was not working. Repairs or replacement is recommended. URGENT --The Cadet electric heater FX051 has been recalled by the manufacturer and are considered unsafe</p> <p>ALL plugs and switches were tested, multiple loose plug-in were secured and cover's reinstalled, GFCI in lower bathroom was replaced with new plug and cover, all outdoor lights were tested and bulbs replaced where needed, cadet wall heater in laundry room was replaced with new upgraded heater. Conduit and plug-in for garage door still needs to be secured. All bathroom fans are operating correctly. - Done</p> <p>-----</p> <p>GARBAGE DISPOSAL - Done The cord is not clamped where it enters the disposal. This could damage the wires or cause a ground fault. The cord should be clamped in accordance with industry standards</p>	8	\$110.00	\$880.00



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PRODUCT / SERVICE	DESCRIPTION	QTY.	UNIT PRICE	TOTAL
Labor	<p>TOILET - Done The toilet is loose where it mounts to the floor. A loose toilet will eventually start to leak and will damage the flooring material, underlayment and subfloor. The most reliable fix for this condition is to remove the toilet and install a new wax seal. The toilet should then be securely mounted to the floor. Toilet was removed, old wax ring and bolts removed, new bolts and wax ring installed and toilet reinstalled.</p> <p>FURNACE FILTER - Done Remove secondary furnace filter Furnace filter replaced with new filter and housing cleaned.</p> <p>PRIMARY BEDROOM BATHROOM SHOWER - Done The joint caulking in and around the shower has mildewed. The joints should be scraped clean, chemically treated, and recalked for a better appearance and to prevent moisture penetration into the surrounding materials and subsequent damage. All old loose caulking removed, cleaned and re caulked.</p> <p>COUNTERTOP - Done The backsplash is not caulked. This allows water to enter the gap between the back splash and counter and it is Backsplash caulked with clear silicone.</p> <p>LAUNDRY ROOM BATHROOM DRAINS, TRAPS AND TRAP ARMS - Fixed Improper, non-conforming material has been used for the drain pipe fitting. This material will not function reliably. Replacement with industry standard fittings is recommended. Interior drains and plumbing checked for correct fit and function. Upstairs bathroom was missing the drain stem, so new chrome drain stem installed. NO PLUMBING was done under or outside of the house.</p> <p>CABINETS - Done The cabinet is not securely fastened to the wall. Proper attachment of the cabinet to the wall is recommended All cabinets were leveled and are secure. Cabinet doors and drawers in upstairs bathroom cabinet are very crooked. This would require complete</p>	8	\$110.00	\$880.00



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PRODUCT / SERVICE	DESCRIPTION	QTY.	UNIT PRICE	TOTAL
Credit card fee 3.5% (disregard if paying cash or check)		1	\$83.27	\$83.27*
Fuel surcharge		1	\$14.36	\$14.36
Materials	Cadet wall heater, GFCI and cover, caulking, light bulbs, dryer vent cover, smoke detectors, miscellaneous truck supplies	1	\$439.83	\$439.83
Labor	Hourly labor charge added late, install 4 new smoke detectors and replace broken dryer vent cover	1.5	\$110.00	\$165.00

PAID

* Non-taxable

The only item not addressed was the garage door. Needs parts

Thank you for your business. Please contact us with any questions regarding this invoice.

Subtotal	\$2,462.46
4000 (8.7%)	\$206.99
Total	\$2,669.45
Paid	– \$2,669.45
Invoice balance	\$0.00

March 14, 2023

**Ms. Jen Emira
17150 NE 140th Ct.
Redmond, WA.**

**Re: 17150 NE 140th Ct.
Redmond, WA.**

Dear Jen;

At your request, a visual inspection of the above referenced property was conducted on 03/14/2023. We have inspected the major structural components, plumbing, heating and electrical systems for signs of significant non-performance, excessive or unusual wear and general state of repair.

Clark Inspections inspectors, inspect all homes and buildings according to the stringent professional standards and code of ethics set forth by the American Society of Home Inspectors (ASHI). The ASHI standards are designed to identify and disclose to the client certain conditions of the major systems as these conditions exist at the time of the inspection. These standards are designed for a visual inspection of the readily accessible areas of the included system. A copy of these standards will be provided upon request or can be obtained by calling the ASHI automatic "Information-On-Demand" phone number at 1-800-743-2744

Home or building inspections performed under these standards should not be construed as a compliance inspection of any governmental or non-governmental codes or regulations. Inspections performed under these standards are essentially visual; are based on the experience and opinion of the inspector; and are not intended to be technically exhaustive. Inspections performed under these standards are not meant to be warranties nor guarantees of adequacy of performance of the structures, systems, or their component parts.

This inspection does not include an inspection for construction or other materials which might be hazardous to your health. It is possible that such materials may be present and not noted in this report.

This inspection does not include the testing or inspection of security systems, intercoms, communication systems, video, or sprinkler systems. These items are highly specialized and individualistic. Clark Inspections recommends that you have the seller and/or real estate agent/broker demonstrate the operation and serviceability of these systems to you prior to the closing of the sale.

Mechanical equipment is inspected for operability only and may contain undisclosed defects which may significantly impair it's usefulness.

Defects are examined and a determination is made on how a particular defect will affect interrelated building parts and whether immediate repairs are required.

Since all buildings have defects, it is important to know and understand what they are and how they affect the house and property. Some of the defects mentioned in this report may be quite typical, and found in other homes of comparable age and price. Some however, may not. We make our best attempt to distinguish this for you in both verbal and written reports.

REPORT SUMMARY

The comments in this report are categorized. General information is given on the type of materials and construction methods. Specific information is given pertaining to the condition of a component and applicable repair and maintenance work that may be required.

Statements, representations, or conclusions offered by the inspector are the considered opinion of the inspector, but these statements, representations, or conclusions do not constitute an expressed or implied warranty of any kind. Neither the inspector nor Clark Inspections Inc. shall be liable for any direct, special, incidental, or consequential damages under an circumstances whatsoever, whether arising in tort, negligence, or contract, nor for any loss, claim, expense, or damage caused by or arising out of his or its inspection of a structure, nor will the inspector or Clark Inspections Inc. indemnify or hold others harmless for any loss, claim, expense, or damage arising out of his or its inspection of a structure.

ACTION ITEMS, SIGNIFICANT DEFECTS AND/OR HEALTH AND SAFETY ISSUES

Non-operational (Action) items, safety or health issues, areas with limited viewing for proper inspection and components that do not serve their intended function (Significant Defects) are listed here. These items will likely require further evaluation and repair by licensed tradespeople.

Please Read entire report

BUILDING SITE

DRIVEWAY

The driveway has cracked and settled differentially. This was probably caused by inadequate preparation of the soil prior to the placement of the concrete. This condition can be repaired by removing and replacing it. The driveway remains functional despite this condition.



The wooden divider separating the concrete driveway sections has deteriorated to a point where it is a trip hazard. Replacement with mortar is recommended.

WALKWAY

The walkway has cracked and settled differentially. This was probably caused by inadequate preparation of the soil prior to the placement of the concrete. This condition can be repaired by pressure grouting the sunken portion of the walkway or by removing and replacing it. Grinding down the raised edges of the concrete will also mitigate the hazard. The walkway remains functional despite this condition. However, the raised edges of the concrete can be a trip hazard for some people. Repairs should be made as necessary.

One or more of the wooden dividers separating the concrete walkway sections were infested by wood destroying organisms and have deteriorated to a point where they are becoming a trip hazard. Replacement with mortar is recommended.



GARAGE

ATTACHED GARAGE

GARAGE DOOR OPENER

The north garage door opener was not tested or inspected. The services of a contractor specializing in automatic openers should be retained to perform the necessary repairs.

FIRE SEPARATION

There are voids in the fire resistive barrier between the living space and garage that will allow flames to penetrate. The gypsum barrier slows the spread of a fire from the garage to the structure and/or living space. Patching the voids with a fire retardant caulk is recommended.



ELECTRICAL SYSTEM

WIRING

A loose electrical conduit was observed in the garage. Loose cables are vulnerable to damage. All loose cables should be secured at 4' intervals using approved cable staples.

The junction box in the garage is not secured. This is a hazard. The junction box should be attached and secured to the framing.

RECEPTACLES

There are several loose receptacles throughout the home. This is a potential shock and a fire hazard. All loose receptacles should be repaired as necessary.

LUMINARIES

The deck luminaries is not working. Testing the luminaries with a voltage tester revealed that there is current to them. Light bulbs should be replaced in non-functional luminaries and then they should be tested for proper operation.

ELECTRIC HEATING

ELECTRIC HEATING

ELECTRIC FAN ASSISTED WALL HEATERS

An electric fan assisted wall heater is used for heating in the laundry room bathroom. The heater was tested and was not working. Repairs or replacement is recommended.

The Cadet electric heater FX051 has been recalled by the manufacturer and are considered unsafe.

Replacement of all of the recalled heaters is recommended.

KITCHEN

OVEN

The oven is not working. It should be repaired or replaced as necessary.

GARBAGE DISPOSAL

The cord is not clamped where it enters the disposal. This could damage the wires or cause a ground fault. The cord should be clamped in accordance with industry standards.



BATHROOMS

PRIMARY BEDROOM BATHROOM

GLASS ENCLOSURE

There is no indication that the shower door glass is tempered or laminated safety glass. This does not conform to current building practices. Replacement, while optional, will increase the margin of personal safety and should be considered.

LAUNDRY ROOM BATHROOM

TOILET

The toilet is loose where it mounts to the floor. A loose toilet will eventually start to leak and will damage the flooring material, underlayment and subfloor. The most reliable fix for this condition is to remove the toilet and install a new wax seal. The toilet should then be securely mounted to the floor.

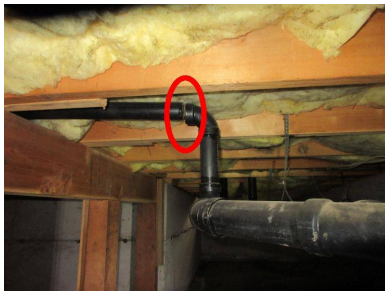
GFCI RECEPTACLES

The GFCI receptacle in this bathroom does not trip when a ground fault is introduced. This is caused by a improperly wired or defective GFCI. Repair or replacement of this GFCI is recommended.

PLUMBING SYSTEM

DRAIN AND WASTE PIPES

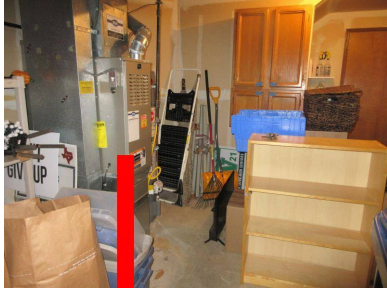
The vertical vent pipe from a waste pipe in the crawlspace is detached. This allows sewer gas to back up into the building and could allow sewage spillage. Repairs are recommended.



GAS PIPING

The gas pipes in front of the furnace and water heater are not protected by a bumper stop. A vertical steel pipe, bolted to the floor, is typically installed in front of the water heater to prevent a car bumper from damaging the

gas lines.



INTERIOR

WINDOWS

Some of the windows do not operate smoothly which makes them very difficult to open and close. Windows should be adjusted or repaired as necessary to improve operation.

SMOKE DETECTORS

There are no functioning smoke detectors in this house. This is a significant hazard. This installation of at least one smoke detector in each bedroom and one in the hall outside of the bedroom is recommended.

FOR MAXIMUM PROTECTION: Use both Ionization and Photoelectric smoke alarms in every bedroom/hallway on every level of your home.

At least one carbon monoxide monitor should be installed for each floor. The best place to install the monitor is in an open area near the gas appliance.

MAINTENANCE ITEMS AND/OR COMPONENTS NEARING THE END OF THEIR SERVICE LIFE

Any item that in the opinion of the inspector is nearing the end of its normal service life and/or conditions that need repair, maintenance and/or upgrades, but have not affected basic functions are listed herein.

BUILDING EXTERIOR

PRIMARY EXTERIOR WALL CLADDING

The siding is rot damaged where it has been in contact with the roofing material. The rot damaged siding should be repaired and a minimum of a 2" clearance should be maintained between the top of the roofing and bottom of the siding.



PEST CONTROL

Untreated wood in direct contact with concrete was observed along the stoop. Untreated wood should be raised 1-2" above the concrete. Treating the wood with a preservative sometimes will prevent wood destroy organism damage.



SOFFITS AND OVERHANGS

There are large gaps over 1/4" in size adjacent the soffit vent blocks. These gaps allow insects and rodents to enter the attic. Covering the gaps with screening, a strip of wood and/or caulking is recommended.



The beams that stick out beyond the drip edge of the roof are vulnerable to rot damage. They should be covered with a metal cap flashing or cut off flush with the edge of the overhang.



There are openings at the intersection between the vent blocks and the brick cladding through which birds and rodents can enter into the attic. These openings should be covered with wood, wire mesh or filled with aerosol

foam.



GUTTERS AND DOWNSPOUTS

There is a build-up of organic debris inside the gutters. Proper maintenance of gutters and downspouts is essential and should be performed routinely in order to prevent clogging. Maintenance consists primarily of keeping leaves and other organic debris out of the system. Failure to clean the gutters will result in water splash on the building when they overflow. Gutters can be damaged under the weight of the water and organic matter inside the gutter. Gutters should be cleaned as necessary to maintain a free flow of water into the downspouts.



Downspouts draining directly onto the asphalt shingle surface causes excessive wear of the roofing material. Downspout extensions to the lower gutters should be installed to prevent excessive wear and tear of the roofing.

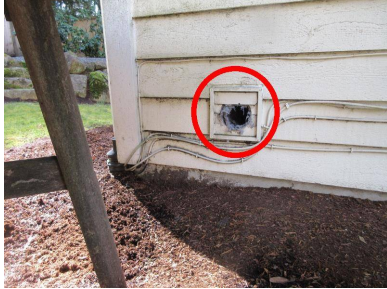


PAINT

The paint on the high exposure areas of the exterior is deteriorated. Paint protects the wood from cupping, checking, warping and rot. Repainting the exposed areas is recommended.

VENT DAMPERS

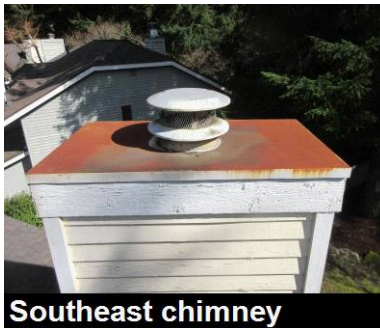
The dryer duct back-draft damper is damaged at the termination. The installation of a hooded back-draft damper is recommended to prevent entry by rodents, birds insects, etc.



ROOF

CHIMNEYS

The chase cover for the north fireplace is concave and holds water. This has resulted in corrosion of the sheet metal. When rust holes form the cover will begin to leak. Chase cover replacement is recommended. The new chase cover should be sloped for drainage.



GAS APPLIANCE VENTS

The gas appliance vent is corroded above the roof line. Cleaning and painting the vent will prolong its service life.



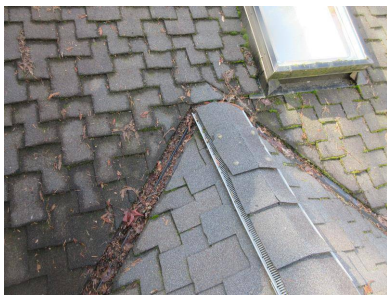
FLASHINGS

There is no kick out flashing at the roof edge to wall intersection above the gutter. This will allow water to enter the wall behind the siding. The installation of a kick-out flashing is recommended.



MAINTENANCE AND REPAIRS

The roof is in need of routine maintenance. The surface should be blown off or washed with a high volume low pressure garden hose to remove moss and organic debris. Performing this maintenance will improve the appearance and increase the life expectancy of the roof.



ATTIC

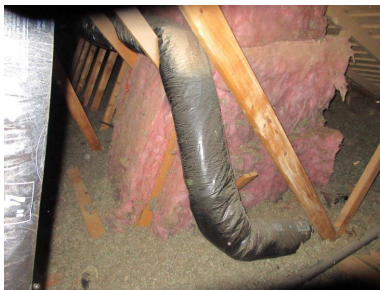
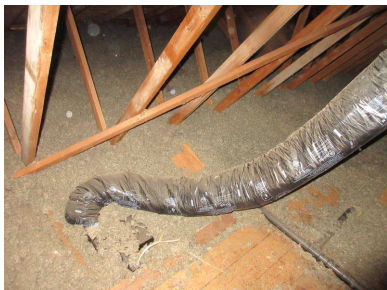
VENTILATION

Wind baffles locations are compromised in some areas of the attic. The proper placement of wind baffles in front of all soffit vents is recommended.



MECHANICAL VENTILATION SYSTEMS

Flexible plastic duct is used to direct air from the vent fans to the exterior. This type of material is unreliable. Replacing the plastic duct with 4" smooth-wall sheet metal duct is recommended.



HEATING SYSTEM

FORCED AIR HEATING SYSTEM

AIR FILTER

The air filter behind the return air grille in the hallway is redundant. Removal of one, of the two filters is recommended.

WATER HEATER

EXPANSION TANK

The expansion tank is not adequately secured to the wall. As code requirements start to call for engineered expansion tank supports we recommend the installation of seismic restraints to secure the expansion tank instead of allowing it to simply depend on piping connections that could result in damage to the water pipe and leakage during an earthquake.



BATHROOMS

UPPER FLOOR HALLWAY BATHROOM

TOILET

The toilet is loose where it mounts to the floor. A loose toilet will eventually start to leak and will damage the flooring material, underlayment and subfloor. The most reliable fix for this condition is to remove the toilet and install a new wax seal. The toilet should then be securely mounted to the floor.

SINK

The sink does not have an overflow. Caution when filling the sink is advised to prevent flooding.

PRIMARY BEDROOM BATHROOM

SHOWER

The joint caulking in and around the shower has mildewed. The joints should be scraped clean, chemically treated, and recaulked for a better appearance and to prevent moisture penetration into the surrounding materials and subsequent damage.

There are cracked tiles in the shower wall surround. The cracks appear to be of a cosmetic nature only. No action is indicated.

FLOORING MATERIAL

Caulking is missing at the intersection between the tub/shower and floor. This can lead to water damage to the flooring and substrate. Caulking this area is recommended.

SINK

The left sink drain stop is not operational. It should be repaired or replaced.

COUNTERTOP

The backsplash is not caulked. This allows water to enter the gap between the back splash and counter and it is

difficult to clean. Caulking should be installed at this location.

LAUNDRY ROOM BATHROOM

DRAINS, TRAPS AND TRAP ARMS

Improper, non-conforming material has been used for the drain pipe fitting. This material will not function reliably. Replacement with industry standard fittings is recommended.



CABINETS

The cabinet is not securely fastened to the wall. Proper attachment of the cabinet to the wall is recommended.

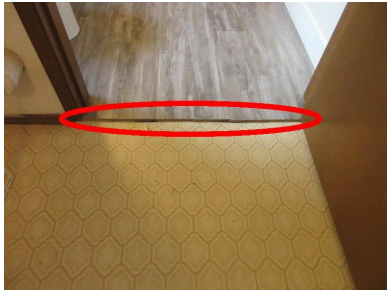
COUNTERTOP

The backsplash is missing. The installation of a backsplash is recommended.

LAUNDRY ROOM

FLOORING MATERIAL

The hard surface flooring lacks a transition strip. The raised edge of the flooring is a hazard. We recommend the installation of a floor edge transition strip.



APPLIANCES

Upgrading the washer connections to high pressure (steel braided) lines is recommended.



PLUMBING SYSTEM

INTERIOR WATER SUPPLY PIPES

There are water pipes in the crawlspace that are not adequately insulated and could freeze. The installation of

foam pipe insulation on all exposed water pipes is recommended.



CRAWLSPACE

MOISTURE

There was evidence of minor accumulations of water on top of the vapor barrier. Minor amounts of water in the crawlspace is not unusual and typically is not cause for concern providing the water does not accumulate in large quantities and remain for long periods.

VAPOR RETARDER

The support post concrete piers are covered with the plastic vapor retarder. This allows the transmission of water vapor from the soil up and into the floor framing. The plastic vapor retarder should be removed from the pier so that it covers at least 85% of the entire surface of the soil only.

PEST CONTROL

Cellulose forms were left in place on the pier footings. This cellulose is conducive to the infestation of various wood destroying organisms. The removal of the cellulose is recommended.



Several of these items will likely require further evaluation and repair by licensed tradespeople. Other minor items are also noted in the report and could be mentioned but none of them affect the habitability of the house.

Thank you for selecting our firm to do your home inspection. If you have any questions regarding the inspection report or the home, please feel free to call us.

Sincerely,

Terry Clark
206-660-9200
Clark Inspections

Clark Inspections
3834 Golden Eagle Loop SE
Olympia WA 98513
206-660-9200
clarkinspections@gmail.com

Page 1

Report: Jen Emira

Confidential Inspection Report
17150 NE 140th Ct.
Redmond, WA 98052

March 14, 2023

Prepared for: Jen Emira

<p>This report is the exclusive property of the inspection company and the client whose name appears herewith and its use by any unauthorized persons is prohibited.</p>

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GENERAL INFORMATION

CLIENT & SITE INFORMATION:

DATE OF INSPECTION: 3/14/2023.
 INSPECTOR'S NAME: Terry Clark.
 CLIENT NAME: Ms. Jen Emira.
 MAILING ADDRESS: 17150 NE 140th Ct.
 Redmond WA.
 CLIENT E-MAIL ADDRESS: jen_emira@outlook.com.
 ADDRESS OF PROPERTY INSPECTED: 17150 NE 140th Ct.
 Redmond WA.



CLIMATIC CONDITIONS:

WEATHER: Partly Cloudy.
 APPROXIMATE OUTSIDE TEMPERATURE: 46 degrees.

BUILDING CHARACTERISTICS:

MAIN ENTRY FACES: West.
 ESTIMATED AGE OF BUILDING: The building is approximately 36 years old.
 BUILDING TYPE: Single family residence.
 SPACE BELOW GRADE: Slab on grade, Ground floor living area, Garage & Crawlspce.

SCOPE, PURPOSE AND LIMITATIONS

RESIDENTIAL

The purpose of this inspection was to discover and evaluate major defects, deficiencies and deferred maintenance found in the main components of the house and in the building site immediately around the building inspected. A major defect or deficiency is a system or component that in the judgment of the inspector, would cost in excess of \$500.00 to repair or replace, is not performing it's intended function, or adversely affects the habitability of the dwelling or building. Defects are examined and a determination is made on how a particular defect will affect interrelated building parts and whether immediate repairs are required.

The major components in this report are categorized. General information is given on the type of materials and construction methods. Specific information is given pertaining to the condition of a component and applicable repair and maintenance work that may be required.

Since all buildings have defects, it is important to know and understand what they are and how they affect the house and property. Some of the defects mentioned in this report may be quite typical, and found in other homes of comparable age and price. Some, however, may not. We make our best attempt to distinguish this for you in both

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Mechanical equipment is inspected for operability only and may contain undisclosed defects which may significantly impair its usefulness.

Statements, representations, or conclusions offered by the inspector and/or by Clark Inspections are based solely upon a visual examination of the exposed areas of the structure inspected. Areas of the structure which are not exposed to the naked eye cannot be inspected, and no conclusions, representations, or statements offered by the inspector are intended to relate to areas not exposed to view. Hidden defects could have a significant impact on the visually based conclusions, statements, and representations made by the inspector.

Statements, representations, or conclusions offered by the inspector are the considered opinion of the inspector, but these statements, representations, or conclusions do not constitute an expressed or implied warranty of any kind. Neither the inspector nor Clark Inspections shall be liable for any direct, special, incidental, or consequential damages under any circumstances whatsoever, whether arising in tort, negligence, or contract, nor for any loss, claim, expense, or damage caused by or arising out of his or its inspection of a structure, nor will the inspector or Clark Inspections indemnify or hold others harmless for any loss, claim, expense, or damage arising out of his or its inspection of a structure.

If you receive information from another building inspection professional, contractor or trades person that is in conflict with ours, or if you discover a major defect in your home or building that was not described in your verbal or written reports, please call us immediately.

GENERAL COMMENTS

RECOMMENDATIONS

Certain building designs and/or building site topography may not qualify for earthquake insurance. Each company has its own underwriting policies. You should check with your insurance agent to determine whether or not your insurance company will write an earthquake policy on this property.

There may be information pertinent to this property which is a matter of public record. A search of public records is not within the scope of this inspection. We recommend you

review all applicable public records that pertain to this property.

We make no representations as to the extent of presence of code violations, nor do we warrant the legal use of this building. This information can be obtained from the local building and/or zoning department.

BUILDING CODES

A code is a system of rules and procedures, the purpose of which is to provide minimum standards to safeguard life, health, and property by regulating certain aspects of building design, construction, use and maintenance. Local codes are usually based on model codes. A community may amend or adopt only parts of a model code. These local codes may not always be the latest version of the model code. Code enforcement is nearly always a local government responsibility and is handled in several ways depending on the type of code and community involved. All model codes and most local codes, grant the code compliance inspector or building official the right to interpret the code to suit special situations. This makes the building official the final authority, not the code book.

Answering the question "Does this meet code?" depends on the building's age, when remodels and upgrades were performed and which codes if any are enforced. This information may not be readily available to the home inspector. Private inspectors usually can determine if an item complies with applicable national model codes, if they know when the work was done and what code was applicable at that time. Local municipalities adopt and enforce national model codes at their discretion. Private building inspectors are typically not permitted to perform code compliance inspections. Code compliance inspections are typically performed by the local code enforcement official. Private building inspectors check to determine whether or not an item performs its intended function or is in need of repair.

Code enforcement usually is a local question and subject to the interpretation by the building code enforcement official. Most communities do not require an existing building to meet "code" prior to sale.

Specific code questions can be referred to the local building official. however, you must realize that if city inspectors check a building, they have the authority to require corrections of any violation. Private building inspectors act solely in an advisory capacity. Their objective reports are a tremendous benefit to anyone purchasing or selling real estate.

BUILDING SITE

The evaluation of the building site and grounds includes grading, roof water and surface drainage systems, fencing, gates, walkways, curbs, driveways, patios, and retaining walls connected to or directly adjacent the structure. These items are visually examined for proper function, excessive or unusual wear and general state of repair. Components or portions of components may not be visible because of soil, vegetation, storage of personal effects and/or the nature of construction. In such cases these items are considered inaccessible and are not inspected. Lawn irrigation systems, fountains, and low voltage decorative garden lights are not included in this inspection.

The following components were inspected:

ROOF WATER DRAIN SYSTEM A below grade roof water drain system is used to divert rain water discharged from the downspouts away from the foundation wall. Below grade drain system designs vary and it is virtually impossible to evaluate the integrity of the system definitively, due to the fact that it is entirely underground. There is a high incidence of defects in these systems, due to the fact that historically, very few municipalities inspected or enforced design or quality standards.

Representative samples of the roof water drain system were tested by inserting a hose into the drain inlet and then letting it run for 10 minutes. There was no water back-up or overflow from the drain line inlets tested.

Defects in these drain systems are one of the most common causes of water or moisture problems in ground floor occupancies, basements and crawlspaces. Overflowing gutters and clogged downspouts and scuppers also frequently cause or exacerbate moisture or water entry problems in and around the building. When water entry or moisture problems are discovered we recommend checking the entire roof water drain system to insure that it is functioning properly.

Occasionally, (once a year) flushing out the drain lines with a garden hose will reduce the build-up of debris and sludge which could impede drainage. This type of maintenance is most effective if the end of the drain line terminates in open air or in a storm sewer. If the drain line terminates in a dry well or leach field, then the washing of debris down the line is not advisable. The debris may eventually clog the perforations in the line which allow the water to escape. This could render the drain system inoperative. It is always best to prevent debris from entering at the inlet.

GRADING The building site is well drained. The finish grade slopes away from the house. No evidence of recent building site flooding, drainage or soil stability problems was observed.

VEGETATION Dense shrubbery and trees planted too close to the building can damage siding and the roof overhang and interfere with drainage and air movement, thus promoting fungus growth and accelerated deterioration of exterior finishes and wood. Trees and shrubs in contact with the building also provide carpenter ants with a route into walls or attics. Trees and shrubs should be trimmed back, where required. When landscaping, trees and shrubs should be planted back away from the building so that they have room to grow.

DRIVEWAY The driveway has cracked and settled differentially. This was probably caused by inadequate preparation of the soil prior to the placement of the concrete. This condition can be repaired by removing and replacing it. The driveway remains functional despite this condition.

The wooden divider separating the concrete driveway sections has deteriorated to a point where it is a trip hazard. Replacement with mortar is recommended.

**WALKWAY**

The walkway has cracked and settled differentially. This was probably caused by inadequate preparation of the soil prior to the placement of the concrete. This condition can be repaired by pressure grouting the sunken portion of the walkway or by removing and replacing it. Grinding down the raised edges of the concrete will also mitigate the hazard. The walkway remains functional despite this condition. However, the raised edges of the concrete can be a trip hazard for some people. Repairs should be made as necessary.

One or more of the wooden dividers separating the concrete walkway sections were infested by wood destroying organisms and have deteriorated to a point where they are becoming a trip hazard. Replacement with mortar is recommended.

Many legal and public works departments have defined a trip hazard as an irregularity in a walking surface exceeding one inch (1") in height. All walking surfaces should maintain, free of a vertical surface change of 3/4" or more, in the interest of public and personal safety.

**FENCES AND GATES**

The fences are properly installed and are performing their intended function. The gates are properly installed and are performing their intended function.

BUILDING EXTERIOR

The evaluation of the building exterior includes the paint, stain, siding, windows, doors, flashing, trim, fascia, eaves, soffits, decks, porches balconies and railings. These items are visually examined for proper function, excessive or unusual wear and general state of repair. Components or portions of components may not be visible because of soil, vegetation, storage of personal effects and/or the nature of construction. In such cases these items are considered inaccessible and are not inspected.

The following components were inspected:

PRIMARY EXTERIOR WALL CLADDING Cedar lap siding is used as an exterior wall cladding. Cedar is a wood that is durable and moderately resistant to decay. Maintaining the finish on the exposed siding will maximize its service life.

The siding is rot damaged where it has been in contact with the roofing material. The rot damaged siding should be repaired and a minimum of a 2" clearance should be maintained between the top of the roofing and bottom of the siding.



PEST CONTROL

Good building practice requires that foundation walls or pier footings supporting wood frame construction, extend at least 8" above the finish grade with at least a 6" clearance between the top of the soil and the bottom of the wood finish materials. Soil in direct contact with wood creates a hospitable environment for wood destroying organisms. These minimum standards should be maintained throughout the building exterior.

Untreated wood in direct contact with concrete was observed along the stoop. Untreated wood should be raised 1-2" above the concrete. Treating the wood with a preservative sometimes will prevent wood destroy organism damage.



SOFFITS AND OVERHANGS

The building has adequate overhangs. Overhangs protect the exterior walls, windows, doors, siding and exterior finish from the ravages of direct rain fall. Buildings with adequately sized overhangs will generally require less frequent exterior maintenance and are less likely to suffer from moisture related problems on the exterior walls.

There are large gaps over 1/4" in size adjacent the soffit vent blocks. These gaps allow insects and rodents to enter the attic. Covering the gaps with screening, a strip of wood and/or caulking is recommended.

The beams that stick out beyond the drip edge of the roof are vulnerable to rot damage. They should be covered with a metal cap flashing or cut off flush with the edge of the overhang.

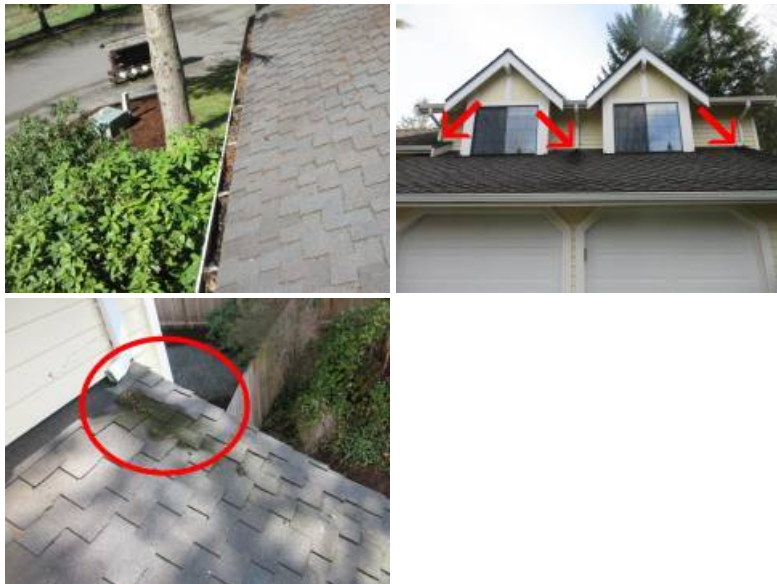
There are openings at the intersection between the vent blocks and the brick cladding through which birds and rodents can enter into the attic. These openings should be covered with wood, wire mesh or filled with aerosol foam.

**GUTTERS AND DOWNSPOUTS**

Roof runoff is collected and channeled into the downspouts by aluminum gutters fastened to the rafter tails. The gutters and downspouts are properly installed and are performing their intended function. Gutters should be cleaned regularly to prevent clogging and overflow.

There is a build-up of organic debris inside the gutters. Proper maintenance of gutters and downspouts is essential and should be performed routinely in order to prevent clogging. Maintenance consists primarily of keeping leaves and other organic debris out of the system. Failure to clean the gutters will result in water splash on the building when they overflow. Gutters can be damaged under the weight of the water and organic matter inside the gutter. Gutters should be cleaned as necessary to maintain a free flow of water into the downspouts.

Downspouts draining directly onto the asphalt shingle surface causes excessive wear of the roofing material. Downspout extensions to the lower gutters should be installed to prevent excessive wear and tear of the roofing.

**PAINT**

The paint on the high exposure areas of the exterior is deteriorated. Paint protects the wood from cupping, checking, warping and rot. Repainting the exposed areas is recommended.

DECK

The deck is installed close to the ground making it more vulnerable to deterioration. The

PORCH

EXTERIOR DOORS

VENT DAMPERS

proximity of the deck to the ground also prevented an inspection of the deck framing. The visible portions of the deck are in good condition.

The front porch is in good condition.

The exterior doors are properly installed and are functioning as intended.

The dryer duct back-draft damper is damaged at the termination. The installation of a hooded back-draft damper is recommended to prevent entry by rodents, birds insects, etc.



ROOF

We evaluate the condition of the roof system by inspecting the roofing material, skylights, flashings, penetrations and roof water drainage system for damage and deterioration. If we observe conditions such as damage, deterioration, defects in materials or workmanship, these items will be noted in your report. We may also offer opinions concerning repair and replacement. Opinions stated herein concerning the condition of the roof and roof service life are based on the condition of the roof system at the time of the inspection. These opinions do not constitute a warranty that the roof is, or will remain, free of leaks. All roof systems require annual maintenance and occasional repair. Failure to perform routine roof maintenance will usually result in leaks and accelerated deterioration of the roofing material. Our estimate of the life expectancy of the roof is based on the assumption that the roof will be properly repaired and maintained during that period.

The following components were inspected:

GENERAL INFORMATION

The roofing material is asphalt composition shingles. The slope or pitch of the roof is medium. Metal gutters are used to collect the roof water drainage. The roof is approximately 15 years old.

INSPECTION METHOD

The inspection of this roof was conducted from the roof surface. The inspector walked on the roof and made a visual inspection of the components listed below.

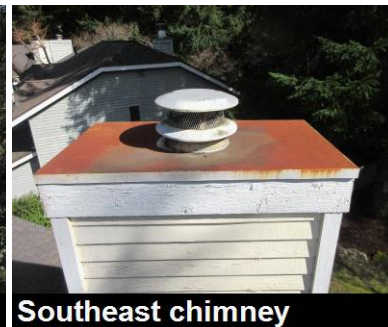
SKYLIGHTS

The skylights are properly installed and there was no evidence of leakage underneath them.

CHIMNEYS

The visible portions of the metal, factory-built chimneys are properly installed and are in serviceable condition.

The chase cover for the north fireplace is concave and holds water. This has resulted in corrosion of the sheet metal. When rust holes form the cover will begin to leak. Chase cover replacement is recommended. The new chase cover should be sloped for drainage.



GAS APPLIANCE VENTS

The visible portion of the gas appliance type B vent is properly installed and in serviceable condition.

The gas appliance vent is corroded above the roof line. Cleaning and painting the vent will prolong its service life.



FLASHINGS

An inspection of the roof flashings revealed the following defects:

There is no kick out flashing at the roof edge to wall intersection above the gutter. This will allow water to enter the wall behind the siding. The installation of a kick-out flashing is recommended.



MAINTENANCE AND REPAIRS

The roof is in need of routine maintenance. The surface should be blown off or washed with a high volume low pressure garden hose to remove moss and organic debris. Performing this maintenance will improve the appearance and increase the life expectancy of the roof.



GENERAL COMMENTS

The roofing material was properly installed and is in serviceable condition. With proper care and maintenance this roof should remain serviceable for up to 15 more years.

ATTIC

The attic contains the roof framing and serves as a raceway for components of the plumbing, electrical and mechanical systems. There are often heating ducts, bathroom vent ducts, electrical wiring, chimneys and gas appliance vents in the attic. We examine the visible portions of the various systems and components for proper function, excessive or unusual wear, general state of repair, roof leakage, attic venting and misguided improvements. When low clearance and/or deep insulation prohibit walking in an unfinished attic, inspection will be performed from the access opening only.

The following components were inspected:

ACCESS

The attic access is located in the primary bedroom closet. The attic was entered and inspected from within.

VENTILATION

The attic is adequately vented.

Wind baffles locations are compromised in some areas of the attic. The proper placement of wind baffles in front of all soffit vents is recommended.

Wind baffles prevent wind from blowing through the soffit vents and pushing the insulation away from the vent opening. The absence of wind baffles will often result in the exposure of large areas of the ceiling to cold temperatures. Wind baffles also prevent insulation from blocking the vents.



MECHANICAL SYSTEMS

VENTILATION Flexible plastic duct is used to direct air from the vent fans to the exterior. This type of material is unreliable. Replacing the plastic duct with 4" smooth-wall sheet metal duct is recommended.



PEST CONTROL

The first step in preventing rodents from entering the attic is to seal all possible entry points using wire mesh, caulking, wood, stainless steel wool, or aerosol foam. Careful work sealing cracks, holes and gaps over 1/4" in size will discourage activity.

GARAGE

The garage often contains major components of the plumbing, heating and electrical systems. These components are discussed under their respective headings. Components that were tested and/or inspected in the garage and reported here include the garage floor, overhead door(s), automatic openers and fire resistive barriers.

ATTACHED GARAGE - The following components were inspected:

GARAGE FLOOR

There are small shrinkage cracks visible in the concrete, however, there is no vertical displacement of any portion of the slab. Shrinkage cracks are common in garage floors and are not considered a structural defect. The garage floor is properly installed and is functioning as intended.

OVERHEAD GARAGE DOORS

The garage is fitted with a pair of roll-up doors. The garage doors are properly installed and are performing their intended function.

There is no automatic garage door opener for the north door. The door must be opened manually.

GARAGE DOOR OPENER

The garage door opener was tested and was functional. The auto stop reverse safety switch was functioning as intended.

The north garage door opener was not tested or inspected. The services of a contractor specializing in automatic openers should be retained to perform the necessary repairs.

FIRE SEPARATION

There are voids in the fire resistive barrier between the living space and garage that will allow flames to penetrate. The gypsum barrier slows the spread of a fire from the garage to the structure and/or living space. Patching the voids with a fire retardant caulk is recommended.



PASSAGE DOOR

The door between the garage and living space is a solid core door with a self closing hinge. The door is properly installed and is in good condition.

RECEPTACLES

There are unprotected receptacles in the garage. The installation of GFCI protection for all of the garage receptacles is recommended.

ELECTRICAL SYSTEM

An electrical system consists of the service, distribution, wiring and convenience outlets (switches, lights and receptacles). Our examination of the electrical system includes the exposed and accessible wiring, service panels, subpanels, overcurrent protection devices, light fixtures and all accessible wall receptacles. We look for adverse conditions such as improper installation of aluminum wiring, lack of grounding, overfusing, exposed wiring, open-air wire splices, reversed polarity and defective GFCIs. The hidden nature of the electrical wiring prevents inspection of every length of wire. Telephone, video, audio, security system and other low voltage wiring is not included in this inspection. We recommend you have the seller demonstrate the serviceability of these systems to you.

The following components were inspected:

<i>ELECTRICAL SPECIFICATIONS</i>	<i>SYSTEM</i>	The voltage is 120/240 single phase three wire service. The power is delivered to this building via an underground service lateral. The amperage rating of this service is 200. Copper wire is used for all 120 volt circuits. Aluminum is used for some of the 240 volt circuits. Non-metallic sheathed cable (Romex) is the type of wiring used throughout the house. The grounding of the service is provided by two driven rods.
<i>UNDERGROUND LATERAL</i>	<i>SERVICE</i>	The underground service lateral was not visible for inspection. However, there was 120/240 volt power to the building which suggests that it is functioning as intended.
<i>SERVICE PANEL LOCATION</i>		The service panel is located in the garage.
<i>MAIN DISCONNECT LOCATION</i>		The main disconnect is an integral part of the service panel. The ampacity of the main disconnect is 200 amps.
<i>SERVICE CONDUCTORS/CABLES/RACEWAY</i>	<i>ENTRANCE</i>	The service entrance conductors are 4/0 aluminum and have an ampacity of 200 amps. The service entrance conductors are properly installed and in serviceable condition.
<i>AYS</i>		
<i>SERVICE AMPACITY</i>		The capacity of the electrical service is 200 amps. A 200 amp service is adequate for this house with the existing electrical equipment. There is also room to add additional circuits if necessary.
<i>SERVICE GROUNDING AND BONDING</i>		The service grounding electrode conductor attachment point was not visible for inspection. The adequacy of the service ground was not determined. The evaluation of this connection may require removal of finish materials and is beyond the scope of this inspection.
<i>SERVICE PANEL</i>		The electrical service panel is properly installed and in serviceable condition.
<i>OVER CURRENT PROTECTION</i>		The circuits are labeled. The accuracy of the labeling was not verified. Do not assume the labeled circuit is off unless it has been checked with a voltage tester. Circuit breakers are used for over current protection. The circuit breakers are properly installed and the ampacity of the connected wires is compatible with that of the circuit breakers. The circuit breakers were not tested.
<i>WIRING</i>		The visible portions of the wiring are properly installed except where noted below.
		A loose electrical conduit was observed in the garage. Loose cables are vulnerable to damage. All loose cables should be secured at 4' intervals using approved cable staples.

The junction box in the garage is not secured. This is a hazard. The junction box should be attached and secured to the framing.



<i>ALUMINUM WIRING</i>	This house uses stranded aluminum wire for service entrance conductors and for dedicated major appliance circuits. This type of aluminum wire circuitry is typically found
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RECEPTACLES

in most houses and is considered safe and reliable when installed correctly.

All of the readily accessible receptacles were tested. Testing revealed defects requiring repair. These defects are outlined below.

GFCI RECEPTACLES

There are several loose receptacles throughout the home. This is a potential shock and a fire hazard. All loose receptacles should be repaired as necessary.

A ground fault circuit interrupter (GFCI) is a device that detects ground faults (current leakage to ground). It protects you from electrocution. GFCI protection is required for receptacles in bathrooms, kitchens, garages, unfinished basements, crawlspaces and at exterior receptacles.

The installation of additional GFCI protection in the garage, bathroom and all exterior receptacles is recommended.

AFCI RECEPTACLES

The reset button for the exterior GFCI protected receptacle is located in the hallway bathroom.

AFCI protection is required for all 15 and 20 amp branch circuits to have protection from the entire branch circuit when that circuit has outlets in dwelling family homes, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas.

LUMINARIES

Replacement receptacles are now required to be arc-fault circuit interrupter (AFCI) protected. This means that if you are replacing an old outlet in an old home in a location that needs AFCI protection in a new home, the replacement outlet needs to be AFCI protected.

All of the accessible luminaries were tested and were found to be functional except where noted below.

The deck luminaries is not working. Testing the luminaries with a voltage tester revealed that there is current to them. Light bulbs should be replaced in non-functional luminaries and then they should be tested for proper operation.

SWITCHES

All of the accessible switches were tested and were found to be properly wired and functional.

ELECTRIC HEATING

Heat is provided by electric resistance heaters. Electric heat is 100% efficient as there is no waste heat of combustion gases as in fossil fuel burning furnaces. However, electric heaters are more expensive to operate than gas or oil fired heaters because electrical energy is more expensive per therm (i.e., unit of energy equal to 100,000 Btu). Each heating unit and/or heating zone is tested using existing operator controls. Information on heating units is outlined below.

ELECTRIC HEATING - The following components were inspected:

ELECTRIC FAN ASSISTED WALL HEATERS An electric fan assisted wall heater is used for heating in the laundry room bathroom. The heater was tested and was not working. Repairs or replacement is recommended.

The Cadet electric heater FX051 has been recalled by the manufacturer and are considered unsafe. Replacement of all of the recalled heaters is recommended.

NEWS from CPSC

U.S. Consumer Product Safety Commission

Office of Information and Public Affairs Washington, DC 20207

FOR IMMEDIATE RELEASE

CONTACT: Cadet Recall Line: (800) 567-2613

February 17, 2000 CONTACT: Jane Francis or Frank Nava
(301) 504-0580 or (510) 637-4053
Release # 00-070

CPSC, Cadet Recall In-Wall Heaters; Settle Lawsuit

WASHINGTON, D.C. - The U.S. Consumer Product Safety Commission (CPSC) and Cadet Manufacturing Co., of Vancouver, Wash., announced today the recall of more than 1.9 million Cadet and Encore brand in-wall electric heaters, distributed mainly in California, Idaho, Montana, Oregon and Washington. This recall announcement follows the [resolution of the lawsuit](#) filed by CPSC staff against the company on January 14, 1999.

CPSC alleges that the following Cadet and Encore brand in-wall electric heaters are defective and can overheat and catch fire: models [FW](#), [FX](#), [LX](#), [TK](#), [ZA](#), [Z](#), [RA](#), [RK](#), [RLX](#), [RX](#) and [ZC](#). Flames, sparks or molten particles can spew through the front grill cover of the heater into the living area of a residence, putting consumers at risk from fires, including burn injuries, smoke inhalation and property damage. The heaters also can become energized creating a risk of electric shock.

CPSC is aware of more than 320 reports of heaters that smoked, sparked, caught fire, emitted flames, or ejected burning particles or molten materials. These incidents have allegedly resulted in three deaths, two serious burn injuries and property damage claims exceeding \$1.2 million, which include five partial or total house fires.

The heaters that are part of today's recall announcement are the following models of Cadet and Encore brands: [FW](#), [FX](#), [LX](#), [TK](#), [ZA](#), [Z](#), [RA](#), [RK](#), [RLX](#), [RX](#) and [ZC](#). The brand and model are located on a label on the front of the heat box, behind the grill. Before removing the grill to check the identification label, consumers must disconnect the power supply to the heater at the circuit breaker. If power is not disconnected, consumers risk electrocution and shock.

Cadet is offering consumers replacement heaters at a significantly reduced cost. Each heater will cost between \$25 and \$57, depending on the model. Consumers who already have replaced the recalled units from October 23, 1997, until today can file a claim for partial reimbursement for \$25 per heater. Consumers must register to participate in this recall by February 17, 2002. To register, contact Cadet anytime at (800) 567-2613 or at www.cadetco.com/recallprogram.html.

CPSC routinely requires companies to pay the full costs associated with recalls. In this case, Cadet has recently emerged from bankruptcy and is unable to provide free replacements or full reimbursements.

In October 1997, Cadet recalled its model FW, FX, LX and ZA heaters to replace defective over-temperature black plastic limit switches. By December 1997, Cadet informed CPSC that it could no longer pay the full costs of the recall, and that the number of heaters involved were far greater than it had originally known. While attempting to resolve the problems with the limit switch recall, the CPSC staff discovered additional problems with the heaters involved in the 1997 recall, as well as problems with some other Cadet and Encore models. In addition to the switch defect, the heating elements and internal wiring connections are defective and can fail. Even if consumers have had the heaters' switches repaired, the heaters have additional problems and need to be replaced.

CPSC strongly urges consumers to participate in this recall. Since the recalled heaters pose a fire hazard until they are replaced, consumers should have at least one fully operational smoke detector on every floor of their home, especially near bedrooms. To ensure that the detector's batteries are working, test the detector every month. Consumers also should have a well-defined and rehearsed escape plan and an alternate escape plan in the event of a fire. You can get information about this from "Your Home Fire Safety Checklist" ([pdf version](#)) or ([text version](#)). To obtain a free hard copy of this publication, write to CPSC, Washington, D.C. 20207.

The U.S. Consumer Product Safety Commission protects the public from the unreasonable risk of injury or death from 15,000 types of consumer products under the agency's jurisdiction. To report a dangerous product or a product-related injury and for information on CPSC's fax-on-demand service, call CPSC's hotline at (800) 638-2772 or CPSC's teletypewriter at (800) 638-8270. To order a press release through fax-on-demand, call (301) 504-0051 from the handset of your fax machine and enter the release number. Consumers can obtain this release and recall information or report product hazards to info@cpsc.gov.

HEATING SYSTEM

A natural gas, propane or oil fired furnace or boiler consists of the self contained furnace or boiler, ducts or pipes for heated air or water distribution, thermostats for regulating the amount of heat and a vent system for removing the combustion gases from the building. The readily accessible portions of these items are examined for defects and are tested using normal operator controls. Most heating systems should be serviced annually by a qualified service technician. Failure to perform regular maintenance will affect the reliability of the heating system and will reduce service life.

FORCED AIR HEATING SYSTEM - The following components were inspected:

<i>GENERAL INFORMATION</i>	Heat is provided by a natural gas fired forced air furnace. The furnace is located in the garage. The furnace is approximately 10 years old. The input rating of the furnace is 66,000 BTU. This BTU rating is typical of a home of this size and age.
<i>GAS PIPING</i>	The flex connector is properly installed and is performing its intended function.
<i>AUTOMATIC GAS VALVE</i>	The automatic gas valve or safety valve is designed to prevent the emission of fuel into the furnace if it does not detect heat for ignition. These valves are generally very reliable. The automatic gas valve was functioning as intended.
<i>IGNITION</i>	The furnace uses an electronic hot surface ignition. This component was functioning as intended.
<i>BURNERS</i>	The gas burners are properly installed and are functioning as intended.
<i>COMBUSTION AIR</i>	The combustion air provides the oxygen for the fuel burning appliances. Combustion air also aids in the movement of combustion gases up the flue. Adequate ventilation around all fuel burning appliances is vital for their safe operation. The air can come from inside the house or from outside providing that the amount of air reaching the appliance is sufficient to maintain efficient combustion and draft. The combustion air supply is adequate.
<i>ELEVATION ABOVE GARAGE FLOOR</i>	The burners in the furnace are elevated at least 18" above the garage floor in accordance with industry standards. This elevation prevents ignition of gasoline fumes that might leak from cars, lawn mowers, gas cans, etc.
<i>HEAT EXCHANGER</i>	The heat exchanger is not visible without disassembling and removing it from the furnace. Cracks typically develop in heat exchangers after 10-20 years. Have your gas furnace technician check the heat exchanger during the next major service.
<i>DRAFT INDUCER</i>	The draft inducer pulls the combustion gases through the heat exchanger and pushes them up the vent connector into the flue. The draft inducer was functioning as intended.
<i>VENT</i>	The furnace uses a type B vent from the top of the furnace to the exterior. The visible portion of the B vent is properly installed and is functioning as intended.
<i>BLOWER</i>	The blower draws air from the return air ducts and pushes it over the heat exchanger where it is heated. The air is then pushed through the distribution ducts into the rooms. The blower was tested and was functioning as intended.
<i>AIR FILTER</i>	The air filter is located in the return air plenum adjacent to the furnace, and a second air filter is located behind the return air grille in the hallway. The air filter should be cleaned or replaced at least 2-3 times during the heating season.
	The air filter behind the return air grille in the hallway is redundant. Removal of one, of the two filters is recommended.
<i>DUCTS</i>	The ducts are constructed out of sheet metal and flex duct. The ducts are properly installed and are performing their intended function.
<i>THERMOSTAT</i>	The thermostat is properly installed and the unit responded to the basic controls. This is a programmable device with options for automatic temperature settings (up and down). Testing the automatic operations of this thermostat is beyond the scope of this inspection.
<i>GENERAL COMMENTS</i>	The furnace responded to the thermostats call for heat and all major components were functional. This type of furnace should be serviced annually.

WATER HEATER

Our review of water heaters includes the tank, gas and/or water connections, electrical connections, venting and safety valves. These items are examined for proper function, excessive or unusual wear, leakage and general state of repair. The hidden nature of piping and venting prevents inspection of every pipe, joint, vent and connection.

The following components were inspected:

<i>LOCATION OF UNIT</i>	The water heater is located in the garage.
<i>GENERAL INFORMATION</i>	The water heater fuel is natural gas. The capacity of the water heater is 50 gallons. The input rating of the burner is approximately 40,000 BTU. The water heater is approximately 3 years old. Water heaters of this type typically last about 10-15 years.
<i>PRESSURE RELIEF VALVE</i>	The pressure relief valve is properly installed. The valve was not tested, as this could cause the valve to leak.
<i>SHUTOFF VALVE</i>	The shutoff valve for the water supply to the water heater is properly installed and is functioning as intended.
<i>WATER CONNECTIONS</i>	AT The water connections at the tank are properly installed and are performing their intended function.
<i>TANK</i>	
<i>EXPANSION TANK</i>	The expansion tank is not adequately secured to the wall. As code requirements start to call for engineered expansion tank supports we recommend the installation of seismic restraints to secure the expansion tank instead of allowing it to simply depend on piping connections that could result in damage to the water pipe and leakage during an earthquake.
	
<i>AUTOMATIC GAS VALVE</i>	The automatic gas valve or safety valve is designed to prevent the emission of fuel into the appliance if it does not detect heat for ignition. These valves are generally very reliable. The automatic gas valve was functioning as intended.
<i>BURNER</i>	The gas burner is properly installed and is functioning as intended.
<i>GAS PIPING</i>	The flex connector is properly installed and is performing its intended function.
<i>VENT</i>	The vent connector from the water heater to the B vent is properly installed and is functioning as intended.
<i>COMBUSTION AIR</i>	The combustion air provides the oxygen for the fuel burning appliances. Combustion air also aids in the movement of combustion gases up the flue. Adequate ventilation around all fuel burning appliances is vital for their safe operation. The air can come from inside the house or from outside providing that the amount of air reaching the appliance is sufficient to maintain efficient combustion and draft. The combustion air supply is adequate.
<i>SEISMIC RESTRAINT</i>	The water heater is secured to the wall. This prevents it from falling over during an earthquake and rupturing gas and water lines.
<i>GENERAL COMMENTS</i>	The water heater is properly installed and is performing its intended function.

KITCHEN

The kitchen was inspected for proper function of components, active leakage, excessive or unusual wear and general state of repair. We inspect built-in appliances using normal operating controls. This includes running the dishwasher, operating the garbage disposal and microwave and checking the burners or heating elements in the stove and oven. Accuracy and/or function of clocks, timers, temperature controls and self cleaning functions on ovens is beyond the scope of our testing procedure. Refrigerators are not tested or inspected unless specifically noted.

The following components were inspected:

COUNTERTOPS

The countertops are covered with plastic laminate. The counter tops are properly installed and are in good condition.

CABINETS

The finish on the kitchen cabinets is slightly worn. The cabinets are otherwise in good condition.

FLOORING MATERIAL

The floor is covered with hardwood and ceramic tile. The floor is properly installed and is in good condition.

VENTILATION

Ventilation in the kitchen is provided by a range hood over the stove. The vent is ducted to the exterior. The vent fan is properly installed and is performing its intended function.

SINK FAUCET

The sink faucet is properly installed and is in good condition.

SINK

The kitchen sink is properly installed and is in good condition.

DRAINS, TRAPS AND TRAP ARMS

The sink drain is properly installed and is performing its intended function.

AIR GAP

An air gap is installed above the flood rim of the sink. This air gap protects the dishwasher from contamination caused by a backflow of waste water. The visible portions of the air gap were properly installed and functioning as intended.

OVEN

The oven is not working. It should be repaired or replaced as necessary.

MICROWAVE

The microwave oven was tested and was functioning as intended.

DISHWASHER

The dishwasher was tested and was functioning as intended.

GARBAGE DISPOSAL

The garbage disposal was tested and was functioning as intended.

The cord is not clamped where it enters the disposal. This could damage the wires or cause a ground fault. The cord should be clamped in accordance with industry standards.



REFRIGERATOR

The refrigerator is functioning as intended.

RECEPTACLES

There are no GFCI protected receptacles in the kitchen. The installation of GFCI protection is recommended.

BATHROOMS

Our inspection of the bathrooms consists of testing of the plumbing fixtures for condition and function. Defects such as leaks, cracked or damaged sinks, tubs and toilets will be listed under the heading of the bathroom in which they were found. The bathroom floor, tub and shower walls are examined for water damage. Ventilation fans are tested for proper operation. Cabinets and countertops are examined for excessive wear and deterioration. Hydromassage tubs are tested and the pump and related equipment are examined when accessible.

BATHROOM

<i>LOCATION</i>	Upper Floor Hallway.
<i>BATHTUB</i>	The one piece fiberglass bathtub and shower unit is properly installed and in good condition.
<i>FLOORING MATERIAL</i>	The floor is covered with sheet vinyl. The floor is properly installed and is in good condition.
<i>TOILET</i>	It is important to maintain the caulking around bathtubs and showers, especially at the intersection between the tub or shower and the floor. Failure to maintain this seal will often result in damage to flooring materials, subflooring and framing. The toilet is loose where it mounts to the floor. A loose toilet will eventually start to leak and will damage the flooring material, underlayment and subfloor. The most reliable fix for this condition is to remove the toilet and install a new wax seal. The toilet should then be securely mounted to the floor.
<i>SINK</i>	The bathroom sink is properly installed and is in good condition. The sink does not have an overflow. Caution when filling the sink is advised to prevent flooding.
<i>DRAINS, TRAPS AND TRAP ARMS</i>	The sink drain is properly installed and is performing its intended function.
<i>FAUCET FIXTURES</i>	The faucet fixtures were tested and were functioning as intended.
<i>CABINETS</i>	The finish on the bathroom cabinet is slightly worn. The cabinet is otherwise in good condition.
<i>COUNTERTOP</i>	The countertop is a manufactured acrylic material. The countertop is properly installed and in good condition.
<i>VENTILATION</i>	Ventilation in this bathroom is provided by a ceiling fan. This fan was operated and was found to be working satisfactorily.
<i>GFCI RECEPTACLES</i>	A ground fault circuit interrupter (GFCI) is a device that detects ground faults (current leakage to ground). It protects you from electrocution. GFCI protection is required for receptacles in bathrooms, kitchens, garages, unfinished basements, crawlspaces and at exterior receptacles. GFCI protected receptacles were found in this bathroom.

BATHROOM

<i>LOCATION</i>	Primary Bedroom.
<i>SHOWER</i>	The shower walls are properly installed and are in good condition. Most ceramic tile is applied directly over gypsum board rather than on a concrete board such as "Durock" or "Wonder Board". Where the tile is applied directly over the gypsum board, it is critical that the tile grout be maintained to prevent water intrusion behind the tile. Missing or cracked grout should be repaired. Inside corners, and penetrations in the tile should be kept sealed with a high quality caulk. The joint caulking in and around the shower has mildewed. The joints should be scraped clean, chemically treated, and recaulked for a better appearance and to prevent moisture penetration into the surrounding materials and subsequent damage. There are cracked tiles in the shower wall surround. The cracks appear to be of a cosmetic nature only. No action is indicated.
<i>GLASS ENCLOSURE</i>	There is no indication that the shower door glass is tempered or laminated safety glass. This does not conform to current building practices. Replacement, while optional, will increase the margin of personal safety and should be considered.

<i>FLOORING MATERIAL</i>	The floor is covered with sheet vinyl and carpet. The floor is properly installed and is in good condition.
	Caulking is missing at the intersection between the tub/shower and floor. This can lead to water damage to the flooring and substrate. Caulking this area is recommended.
<i>TOILET</i>	The toilet was flushed and was functioning as intended.
<i>SINK</i>	The bathroom sinks are properly installed and are in good condition.
	The left sink drain stop is not operational. It should be repaired or replaced.
<i>DRAINS, TRAPS AND TRAP ARMS</i>	The sink drains are properly installed and are performing their intended function.
<i>FAUCET FIXTURES</i>	The faucet fixtures were tested and were functioning as intended.
<i>CABINETS</i>	The finish on the bathroom cabinet is slightly worn. The cabinet is otherwise in good condition.
<i>COUNTERTOP</i>	The countertop is covered with plastic laminate. The countertop is properly installed and in good condition.
	The backsplash is not caulked. This allows water to enter the gap between the back splash and counter and it is difficult to clean. Caulking should be installed at this location.
<i>VENTILATION</i>	Ventilation in this bathroom is provided by a ceiling fan. This fan was operated and was found to be working satisfactorily.
<i>GFCI RECEPTACLES</i>	GFCI protected receptacles were found in this bathroom.

BATHROOM

<i>LOCATION</i>	Laundry Room.
<i>FLOORING MATERIAL</i>	Manufactured vinyl flooring strips are used in this bathroom. This is a durable product. The flooring has been properly installed and is in good condition.
<i>TOILET</i>	The toilet is loose where it mounts to the floor. A loose toilet will eventually start to leak and will damage the flooring material, underlayment and subfloor. The most reliable fix for this condition is to remove the toilet and install a new wax seal. The toilet should then be securely mounted to the floor.
<i>SINK</i>	The bathroom sink is properly installed and is in good condition.
	The sink does not have an overflow. Caution when filling the sink is advised to prevent flooding.
<i>DRAINS, TRAPS AND TRAP ARMS</i>	The sink drain is properly installed and is performing its intended function.
	Improper, non-conforming material has been used for the drain pipe fitting. This material will not function reliably. Replacement with industry standard fittings is recommended.



<i>FAUCET FIXTURES</i>	The faucet fixture was tested and was functioning as intended.
<i>CABINETS</i>	The cabinet is not securely fastened to the wall. Proper attachment of the cabinet to the wall is recommended.
<i>COUNTERTOP</i>	The backsplash is missing. The installation of a backsplash is recommended.
<i>VENTILATION</i>	Ventilation in this bathroom is provided by a ceiling fan. This fan was operated and was found to be working satisfactorily.

GFCI RECEPTACLES

The GFCI receptacle in this bathroom does not trip when a ground fault is introduced. This is caused by a improperly wired or defective GFCI. Repair or replacement of this GFCI is recommended.

LAUNDRY ROOM

Appliances are tested when present and when circumstances allow.

The following components were inspected:

FLOORING MATERIAL

The vinyl flooring is worn and is nearing the end of its service life. Flooring replacement should be considered.

The hard surface flooring lacks a transition strip. The raised edge of the flooring is a hazard. We recommend the installation of a floor edge transition strip.



APPLIANCES

The hookups for the washer are properly installed and in serviceable condition. The washer itself was operated through a partial cycle, however we did not confirm the complete operation of the cycle timer.

Upgrading the washer connections to high pressure (steel braided) lines is recommended.

The hookups for the dryer are properly installed and in serviceable condition. The dryer itself was operated through a partial cycle, however we did not confirm the complete operation of the cycle timer.



DRYER VENT

The visible portions of the dryer vent are properly installed and in serviceable condition. Dryer ducts should be cleaned annually as part of routine home maintenance. A dryer duct that is clogged with lint is a fire hazard.

PLUMBING SYSTEM

A plumbing system consists of the water heater, domestic water supply lines, drain, waste and vent lines and gas lines. Inspection of the plumbing system is limited to the water heater, visible faucets, fixtures, valves, drains, traps, exposed pipes and fittings. These items are examined for proper function, excessive or unusual wear, leakage, and general state of repair. Valves are not tested except where specifically noted. The hidden nature of piping prevents inspection of every pipe and joint. A sewer lateral test, necessary to determine the condition of the underground sewer lines, is beyond the scope of this inspection. If desired, a qualified individual could be retained for such a test. Our review of the plumbing system does not include landscape irrigation systems, off site community water supply systems or private (septic) waste disposal systems. Review of these systems should be performed by qualified and licensed specialists prior to the close of escrow.

The following components were inspected:

PLUMBING SPECIFICATIONS	SYSTEM	The building is on a public water supply system. The building is connected to the municipal sewer system. Copper tubing is used for the water supply piping. ABS plastic is used for the drain, waste and vent pipes.
MAIN WATER SHUTOFF VALVE		The main water supply shutoff valve is located in the garage. It was tested and was functional.
MAIN WATER LINE		The main water line is buried underground and was not visible for inspection.
INTERIOR WATER PIPES	SUPPLY	The visible portions of the copper water supply pipes are properly installed and functional. Copper is considered one of the most desirable materials for interior supply pipes and is expected to last the lifetime of the building.

There are water pipes in the crawlspace that are not adequately insulated and could freeze. The installation of foam pipe insulation on all exposed water pipes is recommended.



WATER PRESSURE
DRAIN AND WASTE PIPES

The water pressure is 80 PSI This is in the normal range of 30-80 PSI.
ABS plastic is used for drain, waste and vent pipes. All of the visible drain pipes were properly installed and functional. ABS is a durable, reliable material and should last the lifetime of the building. All drain, waste and vent pipes were stress tested by filling bathtubs and fixtures to the overflow and then draining them while simultaneously flushing the toilet and running the sinks and showers. No leaks were observed and all fixtures emptied in a reasonable amount of time with no fluctuation in the rate of flow down the drain. This is commonly referred to as "functional drainage".

The vertical vent pipe from a waste pipe in the crawlspace is detached. This allows sewer gas to back up into the building and could allow sewage spillage. Repairs are recommended.



VENT PIPES

The visible portions of the vent pipes are properly installed and are performing their intended function except where noted above.

FAUCET FIXTURES

All faucet fixtures were tested and were functioning as intended.

HOSE BIBBS AND EXTERIOR SUPPLY PIPES

The hose bibbs on this building are the frost free type. These hose bibbs typically will not freeze as long as the hoses are removed. Failure to remove hoses during freezing weather could result in a cracked pipe and leakage. The bibbs were tested and were functioning as intended.

GAS PIPING

The visible portions of the gas piping were properly installed and are performing their intended function. There was no odor of gas leakage at the time of the inspection.

The gas pipes in front of the furnace and water heater are not protected by a bumper stop. A vertical steel pipe, bolted to the floor, is typically installed in front of the water heater to prevent a car bumper from damaging the gas lines.

**GAS METER**

The gas meter is located on the south side of the building. The main gas shut off valve is installed on the high pressure line emanating out of the ground. This valve requires a wrench to open and close. Keeping a gas valve wrench or adjustable wrench accessible near the gas meter is recommended.

INTERIOR

Our review of the interior includes inspection of walls, ceilings, floors, doors, windows, cabinetry, countertops, steps, stairways, balconies and railings. These features are examined for proper function, excessive wear and general state of repair. In some cases, all or portions of these components may not be visible because of furnishings and personal effects. In such cases these items are not inspected.

The following items were inspected:

STAIRS

The stairs were used several times during the inspection. The stair components are properly installed and no deficiencies were noted during use.

WALLS AND CEILINGS

There are minor cracks in the walls and/or ceilings. This is a common condition with this type of construction and does not indicate a structural deficiency. The cracks can be repaired or painted over during routine maintenance. Cracks in drywall that have been repaired will often reoccur several months after the repairs have been completed. This is due to seasonal movement of the structure caused by changes in humidity.

DOORS

All of the doors were tested and were found to be functioning as intended.

CLOSET DOORS

All of the closet doors were tested and were found to be functioning as intended.

WINDOWS

The window frames are constructed from aluminum and have insulated glass in them. All of the windows were tested and/or inspected. The windows are in good condition and are functioning as intended except where noted below.

Some of the windows do not operate smoothly which makes them very difficult to open and close. Windows should be adjusted or repaired as necessary to improve operation.

SMOKE DETECTORS

There are no functioning smoke detectors in this house. This is a significant hazard. This installation of at least one smoke detector in each bedroom and one in the hall outside of the bedroom is recommended.

Ionization technology is generally more sensitive than photoelectric technology at detecting small particles, which tend to be produced in greater amounts by flaming fires, which consume combustible materials rapidly and spread quickly. Sources of these fires may include paper burning in a wastebasket or a grease fire in the kitchen.

Photoelectric technology is generally more sensitive than ionization technology at detecting large particles, which tend to be produced in greater amounts by smoldering fires, which may smolder for hours before bursting into flame. Sources of these fires may include cigarettes burning on couches or bedding.

FOR MAXIMUM PROTECTION: Use both Ionization and Photoelectric smoke alarms in every bedroom/hallway on every level of your home.

At least one carbon monoxide monitor should be installed for each floor. The best place to install the monitor is in an open area near the gas appliance.

DOOR BELL

The doorbell was functioning as intended.

FIREPLACES, WOOD STOVES AND SPACE HEATERS

The following components were inspected:

METAL FIREPLACES

The visible portions of the metal fireplaces were evaluated. The fireplaces are in good condition and no defects or deficiencies were observed.

DAMPERS

The fireplace dampers are functioning as intended. A fireplace damper that is left open when the fireplace is not being used allows huge quantities of heated air to escape up the chimney. Keeping your fireplace damper closed will result in a significant reduction in heating costs.

HEARTH

There are cracked tiles in the hearth. The cracks appear to be of a cosmetic nature only. No action is indicated.

ENVIRONMENTAL ISSUES

Environmental issues include but are not limited to carbon monoxide, radon, asbestos, lead paint, lead contamination, toxic waste, formaldehyde, electromagnetic radiation, buried fuel oil tanks, ground water contamination and soil contamination. The absence of a statement on any of the environmental issues listed above does not necessarily mean that they are not present. We make reference to these substances only when we recognize them during the normal inspection process. Most of the toxic substances listed above cannot be identified without laboratory testing. If further study or analysis seems prudent, the advice and services of the appropriate specialists are advised.

The following items may exist in this building:

CARBON MONOXIDE

Many of us encounter CO regularly and never know it because it's invisible and odorless. That's why victims of CO poisoning often have no warning that they are in danger... until it's too late. Symptoms include headache, nausea, chronic fatigue, confusion and dizziness. Extreme exposure can even cause a coma or death.

Carbon monoxide is a product of incomplete (poor) combustion. It's a direct and cumulative poison. When combined with blood hemoglobin, CO replaces oxygen in the blood until it completely overcomes the body. Death from CO occurs suddenly. The victim inhaling the toxic concentration of the gas becomes helpless before realizing that danger exists.

According to the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) (Ventilation Standard 62- 89), a concentration of no more than 9 parts per million (ppm) (0.0009%), of CO is permissible in residential living spaces. In addition, the Occupational Safety and Health Administration (OSHA) has set an eight-hour work place maximum of 35 ppm. And in flue gas, the Environmental Protection Agency (EPA) and the American Gas Association (AGA) have established the maximum allowable concentration of CO at 400 ppm (See charts).

To ensure safe and efficient combustion, it is imperative that all gas burning appliances be inspected and serviced regularly (once a year) if used in normal service conditions).

FORMALDEHYDE

Formaldehyde, a colorless gas with a pungent odor, is so commonly used today that virtually everyone is likely to be exposed to at least small amounts of it, and a significant number of people are developing symptoms due to exposure to large amounts of formaldehyde in their homes or workplaces. It was an integral component of the urea formaldehyde foam insulation (UFFI) that was installed in more than five hundred thousand homes in the 1970's. (The use of formaldehyde in insulation was banned by the Consumer Product Safety Commission in 1982, but this ruling was overturned by a federal court in 1983.) In addition, it is present in a large variety of consumer products. It is a major part of the resins used as glue in particle board, plywood, and other pressed wood products used extensively in the construction of homes and furniture. Some cosmetics, paper towels, upholstery, permanent press fabrics, carpets, milk, toilet seats, pesticides, and explosives contain it too. Formaldehyde is also present in the exhaust from combustion appliances and in tobacco smoke.

The most common symptoms of excessive formaldehyde exposure are burning eyes, itching, shortness of breath, tightness in the chest, coughing, headaches, nausea, and asthma attacks. Large amounts of the gas have produced cancer in laboratory animals, and government policy assumes that any substance that can cause cancer in animals may also cause it in humans.

People who live in homes that have been "tightened" for maximum energy conservation are most likely to suffer from the effects of formaldehyde gas. The formaldehyde gas seeps from the walls, furniture, carpet, etc. into the air, building up to high levels in the "tightened" home, which can be irritating, particularly to sensitive people.

To minimize your exposure to formaldehyde, ventilate your home - in good weather, open the windows to provide a constant supply of fresh air. Some methods of heat recovery, such as heat recovery ventilators (also known as air-to-air heat exchangers), are available that can ventilate the home while also conserving energy.

You can seal exposed, raw surfaces of particle board and plywood with oil enamel,

ASBESTOS

varnish, wallpaper, or vinyl floor coverings. If you have UFFI insulation, make certain it is completely sealed in the walls or, as a last resort, have it removed.

Asbestos is a naturally occurring mineral fiber that has been used in more than 3,000 different construction materials and manufactured products. It is commonly found in heating system insulation, decorative spray-on ceiling treatments, vinyl flooring, cement shake siding and a variety of additional materials. Some asbestos-containing materials were still being installed into the late 1980s.

The asbestos content of different materials varies according to the product and how it is used. Among those materials with higher concentrations of asbestos are insulating products on heating systems and the backing on sheet vinyl flooring. However, an uncontrolled disturbance of any asbestos-containing material in any concentration may be dangerous to your health!

Why is it a problem? Breathing asbestos fibers could kill you. When disturbed, asbestos breaks down into fibers up to 1,200 times thinner than a human hair. When inhaled, they become trapped in lung tissues. Medical research tells us that up to 30 years after inhalation, asbestos fibers can cause lung cancer or mesothelioma, a related terminal cancer of the tissue lining the chest cavity.

Because asbestos is a naturally occurring mineral and has been so widely used in manufactured products, including automobile brake linings, it can be found almost everywhere. Trace amounts are in the air we breathe every day. Most of us have asbestos fibers in our lungs.

On the other hand, there's no known safe level of asbestos exposure. That's why medical, environmental health and regulatory organizations stress the need to protect health by minimizing exposure to airborne asbestos fibers. This is particularly true when asbestos fibers accumulate at elevated levels. Elevated levels result from uncontrolled disturbances and removal of asbestos-containing materials.

How do I know if it's asbestos? Don't guess! Look for asbestos markings on the product or track the product back to its manufacturer or supplier. If these approaches don't work, submit a small sample for laboratory analysis. Cost is minimal. Laboratories are listed in the yellow pages under "Asbestos - Consulting and Testing." Ask a laboratory technician to instruct you how to safely take a sample. If you decide not to check for asbestos in a suspected material, you should assume it contains asbestos and treat it accordingly.

INSULATION

Insulation, weatherstripping, dampers, storm windows, insulated glass and set-back thermostats are features that help reduce heat loss and increase the comfort and thermal efficiency of your home. We examine these items and identify approximate R values for insulation. When appropriate, we offer suggestions for upgrading. Our review of insulation is based upon a random sampling of accessible areas and does not constitute a warranty that all such areas are uniformly insulated or are insulated to current standards.

The following items were inspected:*ATTIC INSULATION*

The attic is insulated with blown in rockwool insulation. The approximate R value of this insulation is 30. This provides good resistance to heat transfer.

WALL INSULATION

The walls are insulated with fiberglass batt insulation. The 2x6 walls suggest that it is 6" R-19 fiberglass.

FLOOR INSULATION

The floors are insulated with 6" R-19 fiberglass batt insulation. The floor insulation has been properly installed and is in good condition.

STRUCTURE

The structural elements of most residential buildings include a foundation, footings, floor, wall, ceiling and roof framing. The visible portions of these items are examined for proper function, wear, deterioration or signs of non-performance. Some structural components or portions of them are inaccessible because they are buried below grade or hidden behind finished surfaces. Therefore, much of the structural inspection is performed by identifying resultant symptoms of movement, damage and deterioration. Where there are no visible symptoms, components or conditions requiring repair may go undetected and identification will not be possible. We make no representations as to the internal conditions or stabilities of soils, concrete footings and foundations, except as exhibited by their performance.

The following components were inspected:

GENERAL INFORMATION

The foundation is constructed from poured in place concrete. A perimeter foundation wall supports the exterior walls of the building. Interior load bearing components are supported by pier footings and/or continuous spread footings. The floor structure is constructed out of wood joists. The subflooring is plywood. The stud walls are constructed from 2 X 6 dimensional lumber. The exterior wall sheathing is plywood. The roof structure is constructed out of manufactured trusses. The roof sheathing is plywood installed over a layer of open sheathing.

FOUNDATION

The foundation is constructed in a manner typical of buildings of this type and age. There are minor shrinkage cracks in the foundation. Shrinkage cracks are common in poured concrete foundation walls. They do not affect the performance of the foundation. No action is indicated.

MUDSILL

The mudsill is typically a 2x4 or 2x6 member that is laid flat directly on the top of or cast into the top of the foundation wall. The mudsill is usually bolted to the foundation wall and serves as a base for the rest of the floor framing. Most of the mudsill is inaccessible and cannot be evaluated. The visible portions of the mudsill are properly installed and are performing their intended function.

ANCHOR BOLTS

Anchor bolts are bolts that are cast into the top of the concrete foundation and retain the mudsill. The anchor bolts primary function, is to prevent the building from being displaced from its foundation during an earthquake. Anchor bolts have grown in diameter over the years as have the nuts and washers that retain the mudsill. Generally speaking, the newer the building, the better resistance it will have to seismic activity. Anchor bolts are installed and are performing their intended function.

BEAMS AND POSTS

The beams and posts are properly installed and are performing their intended function.

FLOOR JOISTS

The visible portions of the floor joists are properly installed and are performing their intended function.

SUBFLOORING

The subfloor was covered with insulation and finished surfaces and was not visible for inspection. There was no evidence present suggesting that defects or deficiencies are present.

ROOF STRUCTURE

The roof structure is constructed from factory-built, engineered trusses. The trusses are installed in a manner consistent with buildings of this type and are performing their intended function. No defects or deficiencies were observed.

ROOF SHEATHING

The roof sheathing is installed in a manner consistent with buildings of this type and is performing its intended function. No defects or deficiencies were observed.

CRAWLSPACE

The crawl space is where some of the building's structural elements and portions of its mechanical systems are located. These include foundation, structural framing, electrical, plumbing and heating. The visible portions of accessible systems and components are examined for proper function, excessive or unusual wear and general state of repair. Some items observed in the crawlspace will be discussed under the individual systems to which they belong. It is not unusual to find occasional moisture and dampness in crawl spaces. However, significant and/or frequent water accumulation can adversely affect the building foundation and support system and creates conditions conducive to various types of wood destroying organisms. We check for signs of excessive moisture and water entry. Unfortunately, water entry is often seasonal and therefore evidence may not be present at the time of the inspection.

The following components were inspected:

CRAWLSPACE ACCESS

The crawlspace access is located in the garage. The crawlspace was entered and all accessible areas were inspected.

MOISTURE

There was evidence of minor accumulations of water on top of the vapor barrier. Minor amounts of water in the crawlspace is not unusual and typically is not cause for concern providing the water does not accumulate in large quantities and remain for long periods.

VENTILATION

The crawlspace is adequately ventilated. Vents should be kept unobstructed and clear of leaves and other organic debris. Screens should be maintained to prevent rodent entry.

VAPOR RETARDER

The soil under the house is covered with a polyethylene plastic vapor retarder. This component is typically referred to as a "vapor barrier". While not a true vapor barrier, it does reduce the transmission of water vapor from the soil to the air. The vapor retarder is properly installed and is performing its intended function. The vapor retarder should be maintained so that it covers at least 85% of the entire surface of the soil.

The support post concrete piers are covered with the plastic vapor retarder. This allows the transmission of water vapor from the soil up and into the floor framing. The plastic vapor retarder should be removed from the pier so that it covers at least 85% of the entire surface of the soil only.



PEST CONTROL

Cellulose forms were left in place on the pier footings. This cellulose is conducive to the infestation of various wood destroying organisms. The removal of the cellulose is recommended.

Wood boring insect activity in the Puget Sound area usually does not occur unless there is a ventilation problem inside or underneath the structure, a water leakage/rotting condition in the house or significant quantities of soil to untreated wood contact in a crawlspace or outside around the building exterior. Carpenter ant, termite and wood boring beetle activity is most often a direct result of rot damaged wood and/or excessively moist, humid or damp conditions inside, around or underneath the building. Structural damage from termites and ants in most cases does not extend much past the moisture source and/or rot damaged wood. Eliminating high moisture conditions, improving ventilation, correcting the conditions that are conducive to rotting wood and replacing rot damaged wood will usually eliminate the wood boring insect activity, providing that the building is properly maintained thereafter.

The best way to avoid wood boring insect problems is by preventative maintenance. This includes:

- × Good construction practices which exclude water and prevent high moisture conditions.

- x Removal of wood debris and form wood from the crawlspace and around the building exterior.
- x Maintaining the roof water drain system.
- x Maintaining good yard drainage away from the foundation wall.
- x Avoiding wood-soil contact in the crawlspace or around the house exterior.
- x Storing fire wood 6" above grade and in a dry area.

There should be no soil to wood contact in any part of the building exterior or crawlspace, unless that wood is pressure treated. For the greatest safety to permanent structures there should be no soil to wood contact of any kind. Untreated wood in direct contact with exterior flatwork should also be avoided.

Good building practice requires that foundation walls or pier footings supporting wood frame construction, should extend at least 8" above the finish grade with at least a 6" clearance between the top of the soil and the bottom of the wood finish materials. Untreated wood should be raised 1-2" above surrounding flatwork and should have a moisture barrier such as 30 lb. asphalt impregnated felt installed between the concrete and wood. For additional information and treatment options, you should retain the services of a qualified pest control operator.

