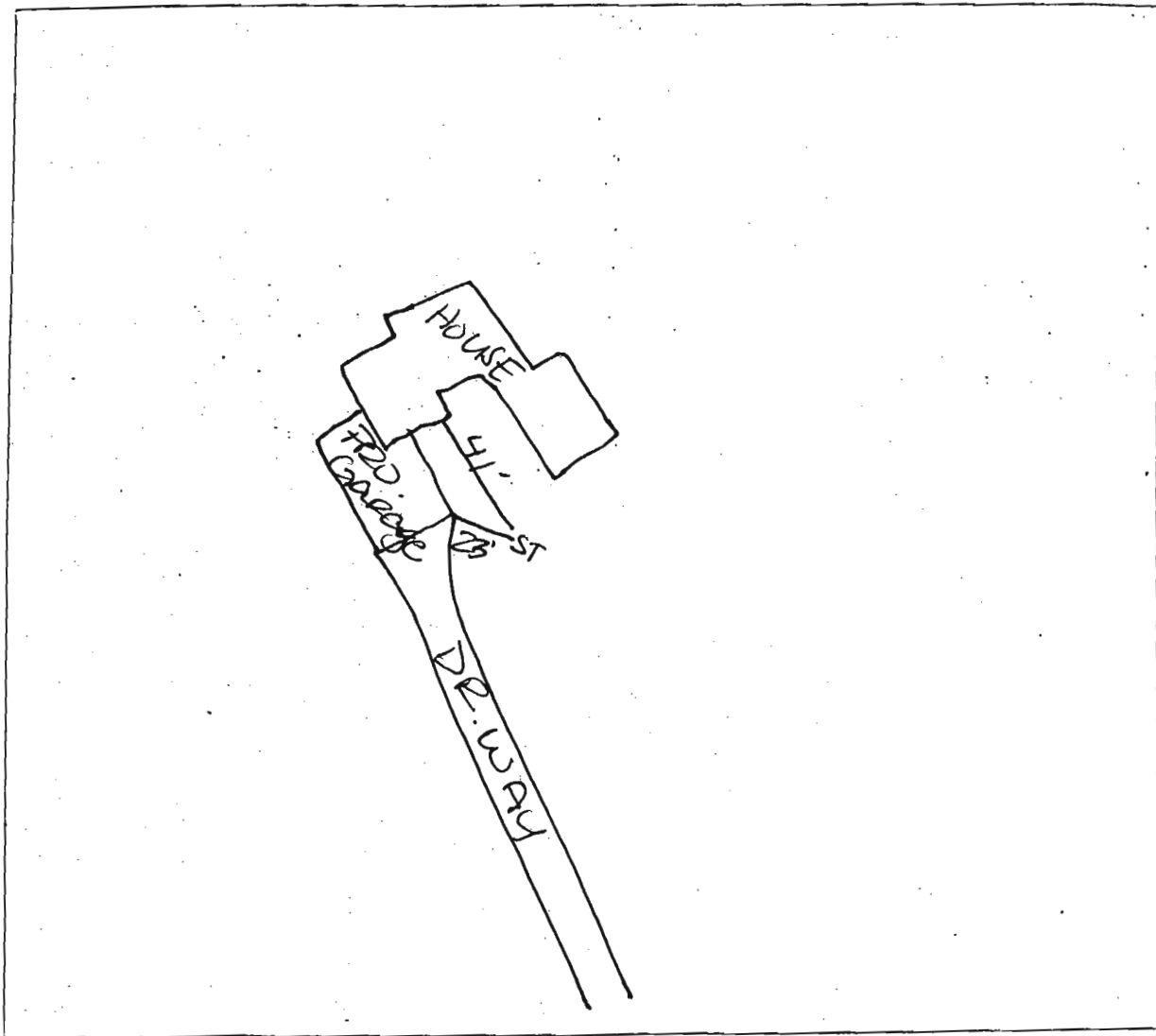




SITE INSPECTION SHEET

OWNER: Dan Runion PHONE #: 301-854-2734  
ADDRESS: 13926 Wayside Dr CONTRACTOR: \_\_\_\_\_  
SUBDIVISION: \_\_\_\_\_ LOT: \_\_\_\_\_ WELL TAG #: \_\_\_\_\_  
PROPOSAL: Build garage COUNTY #: \_\_\_\_\_

LOCATION DIAGRAM



COMMENTS: Septic Tank is located far enough  
from proposed garage for Required  
Setback (AT) 11/8/06

Permit Number

Checked By/Date

## REScheck Compliance Certificate 2003 IECC

REScheck Software Version 3.6 Release 1  
Data filename: RUNION.rck

CITY: Columbia  
STATE: Maryland  
HDD: 4960  
CONSTRUCTION TYPE: Single Family  
WINDOW / WALL RATIO: 0.14

DATE: 10/05/06  
DATE OF PLANS: 9-8-06

### PROJECT DESCRIPTION:

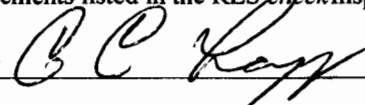
Addition for:  
Mr. & Mrs. Daniel Runion  
13926 Wayside Drive  
Clarksville, Md. 21029

COMPLIANCE: Passes  
Maximum UA = 202  
Your Home UA = 182  
9.9% Better Than Code (UA)

	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Glazing or Door U-Factor	UA
Ceiling 1: Flat Ceiling or Scissor Truss	800	38.0	0.0		24
Wall 1: Wood Frame, 16" o.c.	961	13.0	0.0		67
Window 1: Wood Frame: Double Pane with Low-E	139			0.500	70
Floor 1: All-Wood Joist/Truss: Over Unconditioned Space	800	38.0	0.0		21

COMPLIANCE STATEMENT: The proposed building design described here is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the 2003 IECC requirements in RES check Version 3.6 Release 1 (formerly MECcheck) and to comply with the mandatory requirements listed in the RES check Inspection Checklist.

Builder/Designer



Date

10-5-06

# REScheck Inspection Checklist

## 2003 IECC

REScheckSoftware Version 3.6 Release 1

DATE: 10/05/06

Bldg.  
Dept.  
Use

### Ceilings:

- [ ] 1. Ceiling 1: Flat Ceiling or Scissor Truss, R-38.0 cavity insulation  
Comments: \_\_\_\_\_

### Above-Grade Walls:

- [ ] 1. Wall 1: Wood Frame, 16" o.c., R-13.0 cavity insulation  
Comments: \_\_\_\_\_

### Windows:

- [ ] 1. Window 1: Wood Frame:Double Pane with Low-E, U-factor: 0.500  
For windows without labeled U-factors, describe features:  
# Panes\_\_\_\_ Frame Type\_\_\_\_\_ Thermal Break? [ ] Yes [ ] No  
Comments: \_\_\_\_\_

### Floors:

- [ ] 1. Floor 1: All-Wood Joist/Truss:Over Unconditioned Space, R-38.0 cavity insulation  
Comments: \_\_\_\_\_

### Air Leakage:

- [ ] Joints, penetrations, and all other such openings in the building envelope that are sources of air leakage must be sealed.
- [ ] Recessed lights must be 1) Type IC rated, or 2) installed inside an appropriate air-tight assembly with a 0.5" clearance from combustible materials. If non-IC rated, the fixture must be installed with a 3" clearance from insulation.

### Skylights:

- [ ] Minimum insulation requirement for skylight shafts equal to or greater than 12 inches is R-19.

### Vapor Retarder:

- [ ] Required on the warm-in-winter side of all non-vented framed ceilings, walls, and floors.

### Materials Identification:

- [ ] Materials and equipment must be installed in accordance with the manufacturer's installation instructions.
- [ ] Materials and equipment must be identified so that compliance can be determined.
- [ ] Manufacturer manuals for all installed heating and cooling equipment and service water heating equipment must be provided.
- [ ] Insulation R-values and glazing U-factors must be clearly marked on the building plans or specifications.

### Duct Insulation:

- [ ] Supply ducts in unconditioned attics or outside the building must be insulated to R-8.
- [ ] Return ducts in unconditioned attics or outside the building must be insulated to R-4.

- [ ] | Supply ducts in unconditioned spaces must be insulated to R-8.
- [ ] | Return ducts in unconditioned spaces (except basements) must be insulated to R-2.
- [ ] | Where exterior walls are used as plenums, the wall must be insulated to R-8.
- | Insulation is not required on return ducts in basements.

| **Duct Construction:**

- [ ] | Duct connections to flanges of air distribution system equipment must be sealed and mechanically fastened.
- [ ] | All joints, seams, and connections must be securely fastened with welds, gaskets, mastics (adhesives), mastic-plus-embedded-fabric, or tapes. Tapes and mastics must be rated UL 181A or UL 181B.
- | *Exception:* Continuously welded and locking-type longitudinal joints and seams on ducts operating at less than 2 in. w.g. (500 Pa).
- [ ] | The HVAC system must provide a means for balancing air and water systems.

| **Temperature Controls:**

- [ ] | Thermostats are required for each separate HVAC system. A manual or automatic means to partially restrict or shut off the heating and/or cooling input to each zone or floor shall be provided.

| **Service Water Heating:**

- [ ] | Water heaters with vertical pipe risers must have a heat trap on both the inlet and outlet unless the water heater has an integral heat trap or is part of a circulating system.
- [ ] | Insulate circulating hot water pipes to the levels in Table 1.

| **Circulating Hot Water Systems:**

- [ ] | Insulate circulating hot water pipes to the levels in Table 1.

| **Swimming Pools:**

- [ ] | All heated swimming pools must have an on/off heater switch and require a cover unless over 20% of the heating energy is from non-depletable sources. Pool pumps require a time clock.

| **Heating and Cooling Piping Insulation:**

- [ ] | HVAC piping conveying fluids above 105 °F or chilled fluids below 55 °F must be insulated to the levels in Table 2.

**Table 1: Minimum Insulation Thickness for Circulating Hot Water Pipes.**

Heated Water Temperature ( F)	<u>Insulation Thickness in Inches by Pipe Sizes</u>			
	<u>Non-Circulating Runouts</u>		<u>Circulating Mains and Runouts</u>	
	<u>Up to 1"</u>	<u>Up to 1.25"</u>	<u>1.5" to 2.0"</u>	<u>Over 2"</u>
170-180	0.5	1.0	1.5	2.0
140-160	0.5	0.5	1.0	1.5
100-130	0.5	0.5	0.5	1.0

**Table 2: Minimum Insulation Thickness for HVAC Pipes.**

<u>Piping System Types</u>	Fluid Temp. Range ( F)	<u>Insulation Thickness in Inches by Pipe Sizes</u>			
		<u>2" Runouts</u>	<u>1" and Less</u>	<u>1.25" to 2"</u>	<u>2.5" to 4"</u>
<b>Heating Systems</b>					
Low Pressure/Temperature	201-250	1.0	1.5	1.5	2.0
Low Temperature	120-200	0.5	1.0	1.0	1.5
Steam Condensate (for feed water)	Any	1.0	1.0	1.5	2.0
<b>Cooling Systems</b>					
Chilled Water, Refrigerant,	40-55	0.5	0.5	0.75	1.0
and Brine	Below 40	1.0	1.0	1.5	1.5

**NOTES TO FIELD (Building Department Use Only)**

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