Michael F. Easley, Governor
William G. Ross Jr., Secretary
North Carolina Department of Environment and Natural Resources

Alan W. Klimek, P.E. Director
Division of Water Quality

AQUIFER PROTECTION SECTION
July 26, 2005

B& K Well Drilling
132 Mount Mourne Loop
Mooresville, NC 28117
Attention: April Miller

RE: Request for Variance -
NORTH CAROLINA WELL CONSTRUCTION STANDARDS
Rule 15A NCAC 2C .0107(a)(2)(M) – Separation Distance Between Well and a Building Foundation
New Watt Homes Inc. Lot 64 Cornelius Estate Subdivision, Mooresville
Iredell County, N.C.

Dear Mrs. Miller,

I am writing in response to your application that was received on July 26, 2005. You requested approval of a variance from the referenced Rule, which requires a 25-foot horizontal separation distance between a well and a building foundation. The variance request is for the construction of a new water supply well at the residence of New Watt Homes Inc. Lot 64 Cornelius Estate Subdivision, Mooresville Iredell County, N.C., approximately 11 feet from the building foundation.

Since the new well will not meet the regulatory requirements, the following minimum additional construction requirements would act to mitigate any potential problems that could affect public health and/or the well's effective operation:

1. Galvanized steel casing with drive shoe shall be used, or PVC casing may be used if fitted with appropriate galvanized steel shoe.

2. The casing shall extend into consolidated bedrock in accordance with the following table:

DEPTH TO CONSOLIDATED BEDROCK	MINIMUM DEPTH OF CASING
Less than 50 feet	15 feet into bedrock
50 to 100 feet	10 feet into bedrock
More than 100 feet	5 feet into bedrock

3. The entire length of the casing shall be grouted. A drill bit that is at least 1/3 greater than the outside diameter of the casing shall be used to drill the cased portion of the well. Grout should be installed using the pressure method. The installation of grout using a tremmie pipe is acceptable if the annular space to be grouted is free of obstructions, if not, then a well liner with packer must be installed and fully grouted.

4. The well shall be located in the area indicated on your map (attached).

5. The well driller shall be certified by the North Carolina Well Contractor Certification Commission as required by General Statutes 87-98.4, Title 15A NCAC 27.0101 and .0110.

Based on my review of the available information and recommendations by staff, it is my finding that the above additional requirements are sufficient to satisfy the conditions for approval of a variance as defined in 15A NCAC 2C .0118. A copy of this variance should be attached to the required WELL CONSTRUCTION RECORD (Form GW-1).

On that basis, the requested variance is hereby granted. The granting of this variance does not affect any of the other requirements of the WELL CONSTRUCTION STANDARDS or of the requirements of any other applicable laws or rules. If you are dissatisfied with this decision, you may commence a contested case by filing a petition under G.S. 150-23 within sixty (60) days after receipt of the decision.

If you have any questions regarding this variance, please contact Kevin Bubak at (704/235-2184)

Sincerely,

Bruce R. Parris for

Andrew H. Pitner, P.G.
Regional Aquifer Protection Supervisor
Mooresville Regional Office

cc: Aquifer Protection Section - Raleigh
Iredell Environmental Health Mooresville
New Watt Homes Inc. 720 Sheavers Rd Mooresville, NC 28115