

## Bauske, Shelly A.

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**From:** Fahn, Patrick J.  
**Sent:** Thursday, August 22, 2013 4:36 PM  
**To:** rodger@marinerconstruction.com  
**Cc:** Bauske, Shelly A.  
**Subject:** request for variance for floating slab scale installation  
**Attachments:** Patrick Fahn.vcf

Mr. Burckhard:

Current North Dakota Laws and Rules do not allow for a floating slab scale installation; however, the Commission is considering a change in its rules to allow this type of scale installation and to provide standards for floating slab scale foundations. In the interim, the Commission will consider issuing temporary variance permits for floating slab scale installations that meet or exceed Minnesota's floating concrete slab foundation requirements and that meet or exceed North Dakota's existing rules for footing-type scale installations. The Minnesota requirements for a floating concrete slab scale foundation are:

- The foundation must be constructed on soil that has a uniform natural or engineered soil bearing of at least 1,500 pounds per square foot. The soil bearing test must be performed and certified by a registered engineer.
  - A base of uniform, compacted, permeable aggregate, at least 24 inches deep must be installed. The concrete slab foundation must be poured on top of this base.
  - The scale weighing element or elements must be supported on a monolithic, reinforced 12" thick concrete slab and must conform to the scale manufacturer's installation and reinforcing requirements.
  - The top surface of the foundation slab must be installed above the surrounding grade level so that water will flow away from the foundation and away from the permeable aggregate base that supports the foundation.
- Staff reviewed your July 19, 2013 variance permit request and found that, in addition to the information and verifications you have already provided, your request for temporary variance permit must include the following information in writing before a decision will be made on the request.
- Scale Information: Manufacturer name, type, serial number, and capacity.
  - Verification that the scale weighing element or elements are supported on a monolithic concrete slab.
  - Certification by a registered engineer that the soil beneath the scale has a uniform natural or engineered soil bearing of at least 1,500 pounds per square foot. Provide a copy of the soil test report and certification.
  - Verification that a base of uniform, compacted, permeable aggregate, at least 24 inches deep was installed and the concrete slab foundation is poured on top of this base.
    - Verification that the top surface of the foundation slab is installed above the surrounding grade level so that water will flow away from the foundation and away from the permeable aggregate base that supports the foundation.
  - Verification that the approach on each end of the scale is straight (in-line) with the scale and a minimum of one-third the length of the scale.
  - Verification that the first 12 feet of the straight approach from the scale is at least the width of the scale is of concrete or metal and level and in the same plane as the surface of the scale deck.
  - Verification that the slope of the approaches will not exceed one-third inch per foot.

If you have any questions, please contact me at 701-328-4077.

Thank you.

**Patrick Fahn**

Director  
Compliance and Competitive Markets

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-----Original Message-----

From: Rodger Burckhard [<mailto:rodger@marinerconstruction.com>]

Sent: Monday, July 22, 2013 11:00 AM

To: Bauske, Shelly A.

Cc: Steve Mariner

Subject: Emailing: MX-2600N\_20130722\_110655.pdf

Ms. Bauske

Please review this request for variance. Any questions please call me @ 527-2562

Thank You

Rodger Burckhard

The message is ready to be sent with the following file or link attachments:

MX-2600N\_20130722\_110655.pdf

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