

REED COLLEGE
REED RESEARCH REACTOR
LICENSE NO. R-112
DOCKET NO. 50-288

RESPONSES TO THE
REQUEST FOR ADDITIONAL INFORMATION
DATED AUGUST 15, 2011

REDACTED VERSION*

SECURITY-RELATED INFORMATION REMOVED

*REDACTED TEXT AND FIGURES BLACKED OUT OR DENOTED BY BRACKETS



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August 15, 2011

Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Docket: 50-288

License No: R-112

RE: Clarifications in Response to phone calls on July 7, 2011, and July 15, 2011

The following are clarifications requested in phone calls on July 7 and July 15. The responses reference the numbering from the original request for additional information.

RAI 7. Please make a statement regarding the use of stainless steel clad fuel.

The RRR is a water-cooled, water moderated TRIGA reactor loaded with NRC qualified TRIGA fuel. The core is currently loaded with stainless steel clad "original" fuel as described in NUREG -1282.

RAI 11. Please clarify the core support structure is suitable for use of the requested license.

The core structure was visually inspected July 18, 2011 to verify the condition. During the inspection there were no visible signs of corrosion, cracking or deformation of the core support structure. Images obtained during the inspection are attached. The condition of pool, core structure, and fuel is observed and noted in the daily start up and shutdown as part of normal operations. The core support structure is deemed acceptable for continued use over the requested license period.

RAI 40. Change the Safety Limit to be consistent with NUREG 1537 part 1.

The safety limit has been set to 1150 °C.

RAI 18. Change the range of the pH to NUREG 1537 part 1 section 5.4 vs. being consistent with NUREG 1537 part 1 appendix 14.

The pH range has been changed to 5.5 to 7.5 as suggested in NUREG 1537 part 1 section 5.4.

A020
URR

I declare under penalty of perjury that the foregoing is true and correct.

Executed on *Aug 15 2011*

A handwritten signature in black ink, appearing to read 'Melinda P. Krahenbuhl', written in a cursive style.

Melinda P. Krahenbuhl, Ph.D.
Director, Reed Research Reactor.

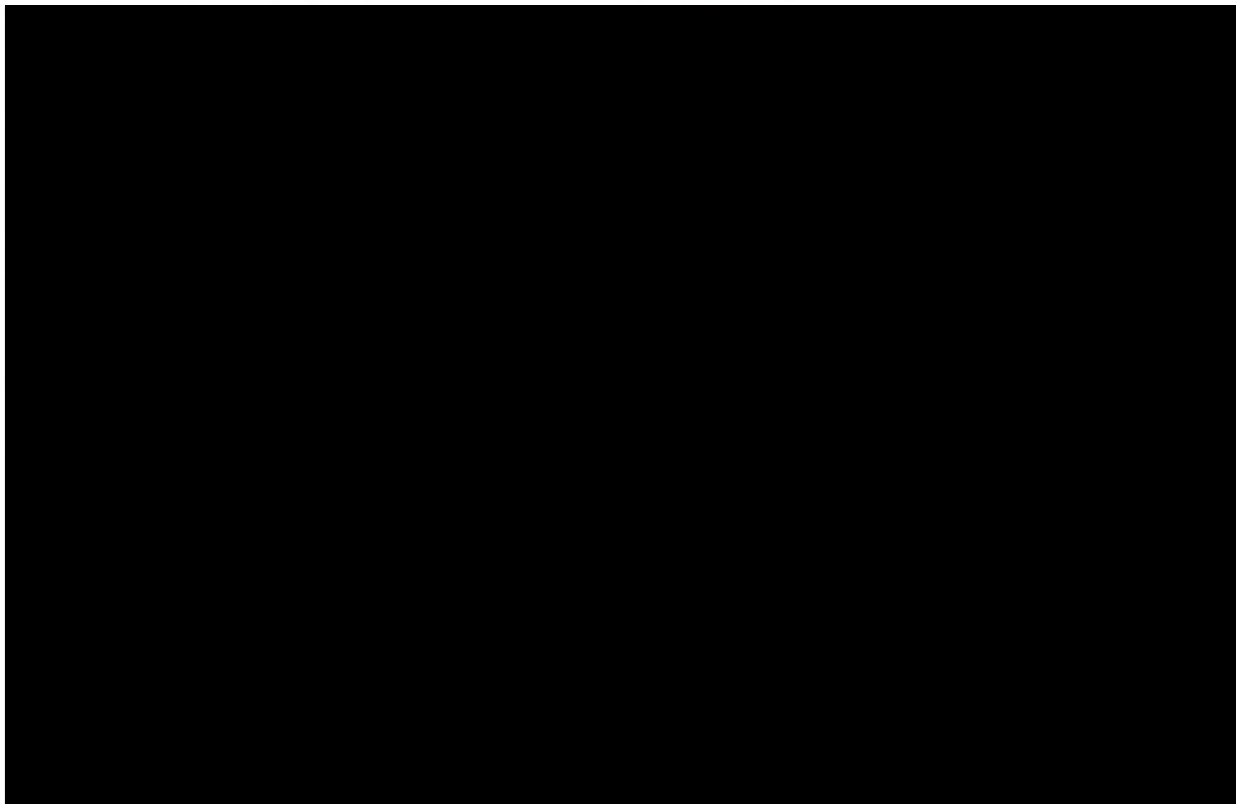


Figure 1. Lower grid plate – Reed Research Reactor

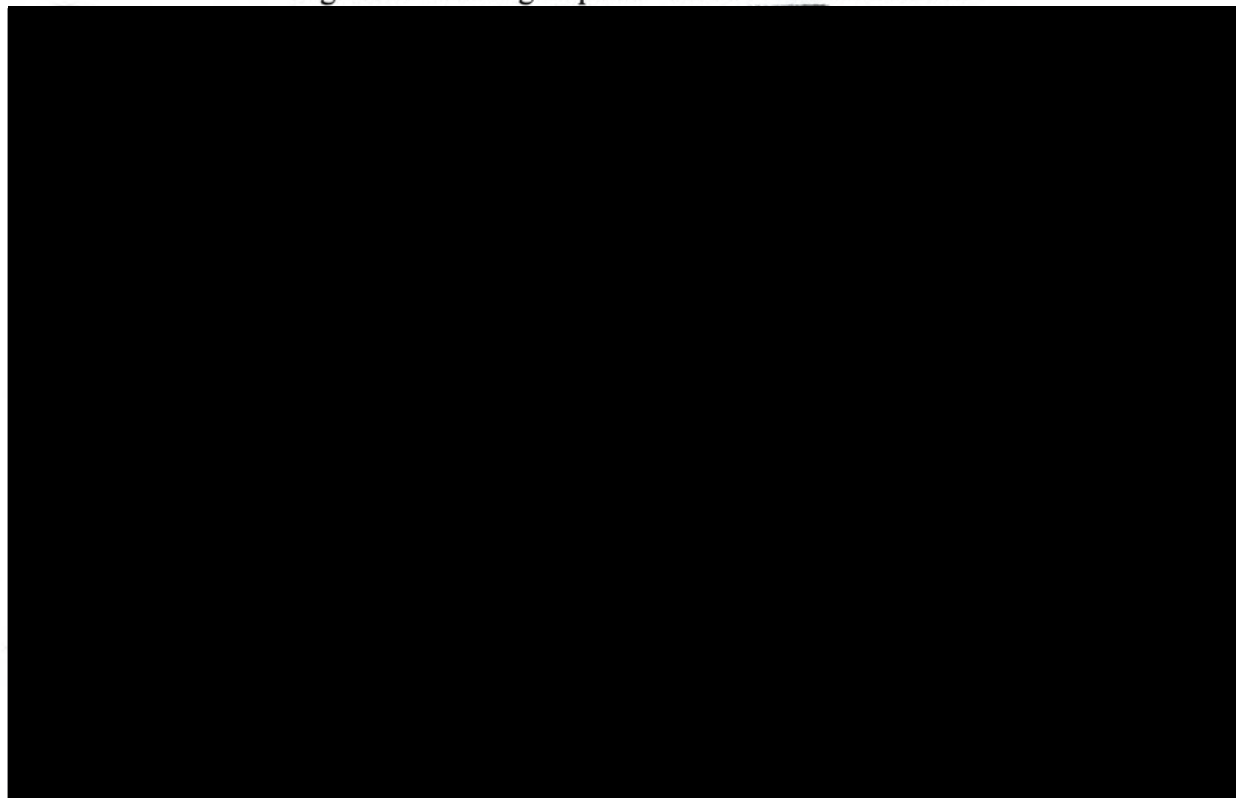


Figure 2. Legs – Reed Research Reactor

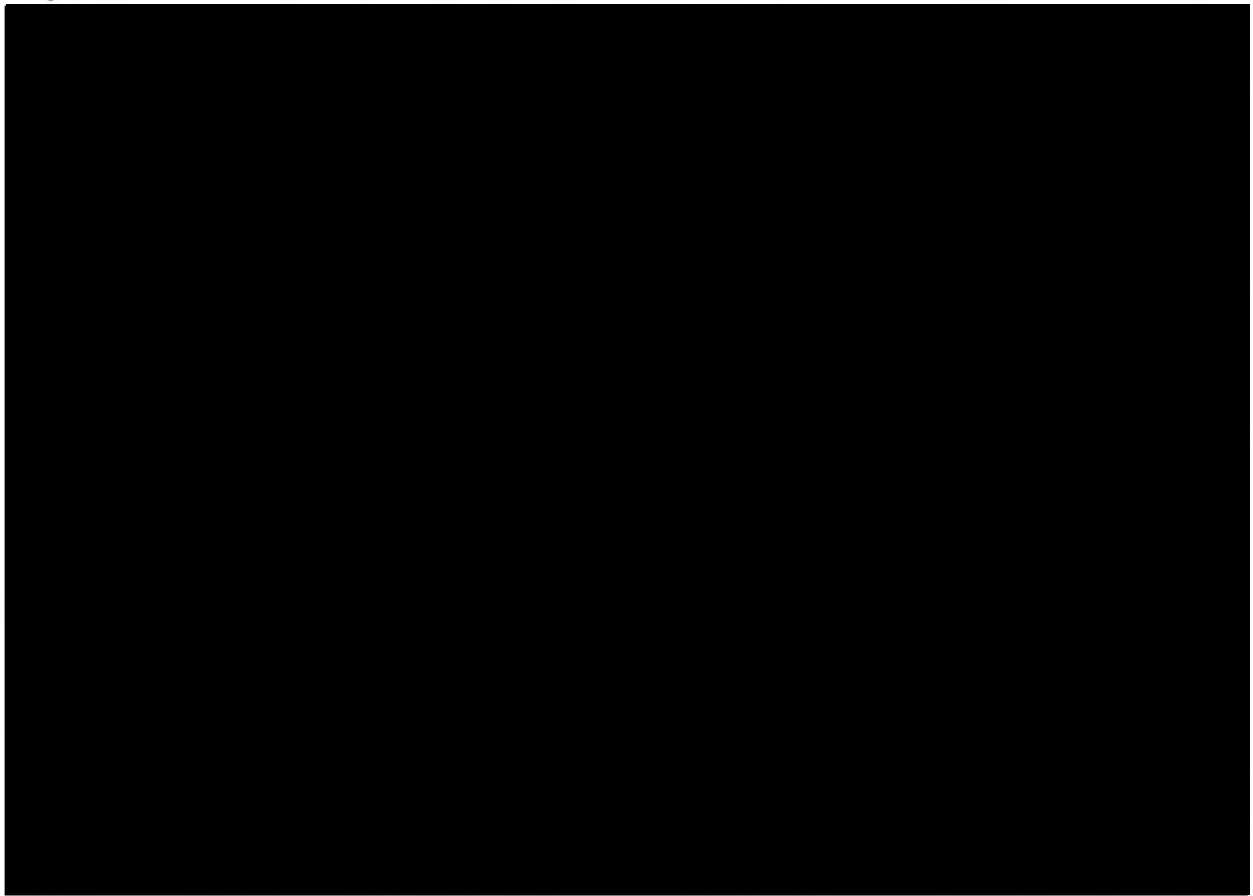


Figure 3. Close view of leg – Reed Research Reactor