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**From:** Brookhart, Lee  
**Sent:** Wednesday, April 15, 2015 7:23 AM  
**To:** Simpson, Eric  
**Subject:** FW: Callaway ISFSI - Deluge test pictures  
**Attachments:** Deluge test pictures.pdf

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**From:** Hartman, Thomas  
**Sent:** Tuesday, April 14, 2015 7:01 AM  
**To:** Brookhart, Lee  
**Subject:** FW: Callaway ISFSI - Deluge test pictures

FYI. "Slight wetting" after the deluge test (last pic). It looks more than that to me.

Tom

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**From:** Ptasznik, Elizabeth M [<mailto:EPTasznik@ameren.com>]  
**Sent:** Monday, April 13, 2015 7:33 PM  
**To:** DL CAL NRC Resident Inspectors  
**Cc:** Ewens, Steve E  
**Subject:** Callaway ISFSI - Deluge test pictures

Tom –

As requested, please find the attached photo's which were taken during the performance of last week's deluge test on the ISFSI.

.....

**ELIZABETH PTASZNIK**  
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Regulatory Affairs - Licensing  
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.....

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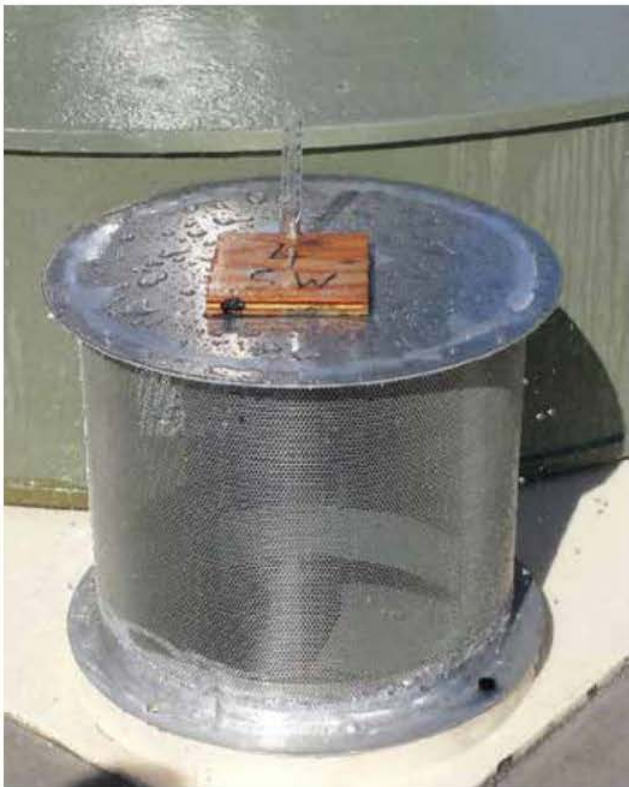
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Deluge Test:







Post-Deluge Test; Only slight wetting at the CEC baseplate



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**From:** Brookhart, Lee  
**Sent:** Friday, March 15, 2019 12:17 PM  
**To:** Pruett, Troy  
**Cc:** Smith, Chris  
**Subject:** RE: Storm test

Here is the test per the FSAR approved by the NRC

iv. Storm Water Control Test

The HI-STORM UMAX VVM is designed to direct storm water and snow/ice melt-off away from the CEC Flange and the Closure Lid where the air passages are located. The engineered rain caps installed on the inlet and outlet serve to keep rain and snow away from the VVM cavity. Moreover, any minor amount of moisture that may intrude into the MPC storage cavity due to wind-driven rain will evaporate in a short period of time due to the continuous movement of heated air in the MPC storage cavity. To verify the effectiveness of the storm water drainage design, a one-time test shall be performed after construction of the first VVM to ensure that the design is effective in directing storm water away from the VVM to the ISFSI's drainage system. The VVM shall be subjected to a water spray that simulates exposure to rainfall of at least 2 inches per hour for at least one hour. At the conclusion of the water spray, the depth of the water (if any) in the bottom of the module cavity shall be measured. Any amount of water accumulation beyond wetting of the Bottom Plate indicates an inadequacy in rain diversion features of the VVM and shall be appropriately corrected. It should be noted that accumulation of water is not injurious to the thermal performance of the system. The only deleterious effect of prolonged exposure to water is the potential for reducing the service life of the preservative on the wetted surface of the Bottom Plate, CEC shell, and other interfacing components.

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**From:** Brookhart, Lee  
**Sent:** Thursday, March 14, 2019 5:38 PM  
**To:** Pruett, Troy <Troy.Pruett@nrc.gov>  
**Subject:** Storm test

