

**From:** [RILEY, Jim](#)  
**To:** [Cook, Christopher](#); [Miller, Ed](#)  
**Cc:** [Attarian, George](#); [Brunette, Pat](#); [Buman, Dan](#); [Burris, Ken](#); [Carrie L. Stokes \(carrie.stokes@bwsc.net\)](#); [Colin Keller](#); [crharris@aep.com](#); [Dave Bucheit](#); [Dean Hubbard \(dmhubbard@duke-energy.com\)](#); [Don Bentley \(DBENTLE@entergy.com\)](#); ["Faller, Carl"](#); [Gambrell, David](#); [GASPER, JOSEPH K](#); [Giddens, John](#); [Glen D Ohlemacher \(ohlemacher@dteenergy.com\)](#); [Hackerott, Alan](#); [Hammons, Mark A.](#); [Heather Smith Sawyer \(heather.sawyer@bwsc.net\)](#); [Heerman, John](#); [Horstman, William R](#); ["Huffman, Ken"](#); [HYDE, KEVIN C](#); [Jeff Brown \(jeffrey.brown@aps.com\)](#); [Jim Breunig \(james.breunig@cengllc.com\)](#); [Joe Bellini \(joe.bellini@amec.com\)](#); [John Lee \(John.Lee@dom.com\)](#); [Kit Ng \(kyng@bechtel.com\)](#); [LaBorde, Jamie](#); [Larry Shorey \(ShoreyLE@inpo.org\)](#); [Lorin.Young@CH2M.com](#); [Maddox Jim \(maddoxje@inpo.org\)](#); [Mannai, David J](#); [Matt Nienaber \(mbniena@nppd.com\)](#); [Maze, Scott](#); [Michael Proctor \(michael.proctor@urs.com\)](#); [MICHAEL J.MILLER@sargentlundy.com](#); [Mike Annon - Home \(ICENG2008@AOL.COM\)](#); [Mike Annon \(annonm@dteenergy.com\)](#); [Miller, Andrew](#); [Murray, Mike](#); [Parker, Thomas M.](#); [Ray Schneider \(schneire@westinghouse.com\)](#); [RILEY, Jim](#); [Robinson, Mike](#); [Rogers, James G](#); [Rudy Gil](#); [Scarola, Jim](#); [Selman, Penny](#); [Shumaker, Dennis](#); [Snyder, Kirk](#); [Stapleton, Dan](#); [Stone, Jeff](#); [Terry Grebel \(tlg1@pge.com\)](#); [Thayer, Jay](#); [Vinod Aggarwal \(Vinod.aggarwal@exeloncorp.com\)](#); [Wrobel, George](#); [Yale, Bob](#)  
**Subject:** FAQ 010 - Flooding Duration  
**Date:** Thursday, February 14, 2013 4:34:11 PM  
**Attachments:** [FAQ 010 -Flood Duration - Indefinite Stable State Rev 2 2-14-13.doc](#)

---

Chris, Ed;

One additional FAQ is attached for your review: FAQ-010, Flood Duration, Indefinite Stable State. This one is related to our example of a scenario based approach to evaluating mitigation capability. You have not seen this one before.

*Jim Riley*

**NEI**

**(o) 202-739-8137**

**(c) 202-439-2459**

**NOW AVAILABLE: NEI's Online [Congressional Resource Guide](#), JUST THE FACTS!**

**Web site address: [www.NEI.org/CongressionalResourceGuide](http://www.NEI.org/CongressionalResourceGuide)**



FOLLOW US ON



*This electronic message transmission contains information from the Nuclear Energy Institute, Inc. The information is intended solely for the use of the addressee and its use by any other person is not authorized. If you are not the intended recipient, you have received this communication in error, and any review, use, disclosure, copying or distribution of the contents of this communication is strictly prohibited. If you have received this electronic transmission in error, please notify the sender immediately by telephone or by electronic mail and permanently delete the original message. IRS Circular 230 disclosure: To ensure compliance with requirements imposed by the IRS and other taxing authorities, we inform you that any tax advice contained in this communication (including any attachments) is not intended or written to be used, and cannot be used, for the purpose of (i) avoiding penalties that may be imposed on any taxpayer or (ii) promoting, marketing or recommending to another party any transaction or matter addressed herein.*

Sent through mail.messaging.microsoft.com

## Inquiry Form – Industry Approval

**A. TOPIC:** Flood Duration - Indefinite Stable StateSource document: NRC JLD-ISG-2012-05 Section: 9**B. DESCRIPTION:**

The NRC JLD-ISG-2012-05 dated November 30, 2012 in Section 9. Terms and Definitions includes the following definition: *"Flood event duration: The length of time in which the flood event affects the site, beginning with conditions being met for entry into a flood procedure or notification of an impending flood (e.g., a flood forecast or notification of dam failure), including preparation for the flood and the period of inundation, and ending when water has receded from the site and the plant has reached a safe and stable state that can be maintained indefinitely."* The statement *"..and the plant has reached a safe and stable state that can be maintained indefinitely."*, has been expanded beyond the description of flood event duration provided in the 50.54(f) letter. The term *"maintained indefinitely"* needs clarification to better define an acceptable response after the plant has reached a safe shutdown condition and the water has receded.

**C. Initiator:**

Name: D Hubbard Phone: \_\_\_\_\_  
Date: 1/16/13 E-Mail: dean.hubbard@duke-energy.com

**D. RESOLUTION:** (Include additional pages if necessary. Total pages: 1)Inquiry number: 010 Priority: M

The term "maintained indefinitely" describes the time period after the flood waters have receded and the plant is stable in a safe shutdown condition. This "indefinite" time period includes a sufficient time for the licensee to implement a predefined plan to replenish any resources or consumables needed to maintain a stable state (eg additional personnel, water and power). For example, the flooding event response that provides protection or mitigation brings all site reactors to hot or cold shutdown (depending on licensing basis), and maintains key safety functions (safety functions required to prevent core damage and large early release) after the flood waters have receded from the site. The sites existing staffing, systems, structures, components, power sources and water sources are sufficient to maintain the plant's key safety functions in a safe and stable state, and that sufficient response time is also available to execute a predefined and reliable plan for ongoing replenishment of the plant inventory of personnel, cooling water, diesel fuel for power, and any other finite resource required to maintain key safety functions indefinitely or until normal systems are restored. Indefinite operation also implies that resources exist for the maintenance, repair and operation of the long term mitigation equipment.

Revision: 2 Date: 2/14/13**E. NRC Review:**Not Necessary \_\_\_\_\_ Necessary X

Explanation: \_\_\_\_\_

**F. Industry Approval:**

Documentation Method: \_\_\_\_\_ Date: \_\_\_\_\_

## **Inquiry Form – Industry Approval**