

## **NRR-PMDAPEm Resource**

---

**From:** Chawla, Mahesh  
**Sent:** Monday, March 14, 2016 4:17 PM  
**To:** laura.swenzinski@nexteraenergy.com; Davis, J.Michael (J.Michael.Davis@nexteraenergy.com); Cross, William (WILLIAM.CROSS@fpl.com)  
**Cc:** Oesterle, Eric; Razzaque, Muhammad; Tilton, Caroline; Elliott, Robert; Wrona, David; Norton, Charles; Steffes, Jakob; Phillips, Charles; Stoedter, Karla  
**Subject:** Request For Additional Information - Duane Arnold Energy Center - LAR to reduce the Reactor Steam Dome Pressure specified in the Tech Spec 2.1.1, "Reactor Core Safety Limits" - MF6618

By letter dated August 6, 2015 (ADAMS Accession No.ML15246A410), NextEra Energy Duane Arnold (NextEra), the licensee for Duane Arnold Energy Center (DAEC), requested an amendment to revise the DAEC Technical Specifications (TS). The proposed change involves reduction of the reactor steam dome pressure specified within Reactor Core Safety Limits Specification 2.1.1, in the TS. This change resolves a 10 CFR Part 21 condition concerning a potential to momentarily violate Reactor Core Safety Limit 2.1.1.1 and 2.1.1.2 during a Pressure Regulator Failure Maximum Demand (Open) transient. In order to complete the safety evaluation of the subject application, the NRC is requesting the following additional information:

### **RAI - 1**

In page 4 of the application, dated August 6, 2015, the license stated,

DuaneArnold proposes to utilize the fact that the GE14 and GNF2 fuel that comprise the DAEC core, utilize critical power correlations that have an approved pressure range from 700 to 1400 psia.

Converting 700 psia to psig, the lower bound pressure for the GEXL17 and GEXL14 correlations is approximately 685.3 psig. As such, the 685 psig value specified in the proposed TS change is slightly outside the pressure range in which the GEXL17 and GEXL14 correlations are valid for GNF2 and GE14 fuel. Please provide further justification for the proposed 685 psig value or propose a revised pressure value for this TS change that is supported by the GEXL17 and GEXL14 correlations (e.g., 700 psia).

***Please arrange a teleconference to discuss the requested information, and provide your response on the docket no later than 30 days from the receipt of this email. Thanks***

Mahesh Chawla  
Project Manager  
Phone: 301-415-8371  
Fax: 301-415-1222  
mahesh.chawla@nrc.gov

**Hearing Identifier:** NRR\_PMDA  
**Email Number:** 2709

**Mail Envelope Properties** (Mahesh.Chawla@nrc.gov20160314161700)

**Subject:** Request For Additional Information - Duane Arnold Energy Center - LAR to reduce the Reactor Steam Dome Pressure specified in the Tech Spec 2.1.1, "Reactor Core Safety Limits" - MF6618

**Sent Date:** 3/14/2016 4:17:10 PM

**Received Date:** 3/14/2016 4:17:00 PM

**From:** Chawla, Mahesh

**Created By:** Mahesh.Chawla@nrc.gov

**Recipients:**

"Oesterle, Eric" <Eric.Oesterle@nrc.gov>

Tracking Status: None

"Razzaque, Muhammad" <Muhammad.Razzaque@nrc.gov>

Tracking Status: None

"Tilton, Caroline" <Caroline.Tilton@nrc.gov>

Tracking Status: None

"Elliott, Robert" <Robert.Elliott@nrc.gov>

Tracking Status: None

"Wrona, David" <David.Wrona@nrc.gov>

Tracking Status: None

"Norton, Charles" <Charles.Norton@nrc.gov>

Tracking Status: None

"Steffes, Jakob" <Jakob.Steffes@nrc.gov>

Tracking Status: None

"Phillips, Charles" <Charles.Phillips@nrc.gov>

Tracking Status: None

"Stoedter, Karla" <Karla.Stoedter@nrc.gov>

Tracking Status: None

"laura.swenzinski@nexteraenergy.com" <laura.swenzinski@nexteraenergy.com>

Tracking Status: None

"Davis, J.Michael (J.Michael.Davis@nexteraenergy.com)" <J.Michael.Davis@nexteraenergy.com>

Tracking Status: None

"Cross, William (WILLIAM.CROSS@fpl.com)" <WILLIAM.CROSS@fpl.com>

Tracking Status: None

**Post Office:**

Files	Size	Date & Time
MESSAGE	1789	3/14/2016 4:17:00 PM

**Options**

**Priority:** Standard

**Return Notification:** No

**Reply Requested:** No

**Sensitivity:** Normal

**Expiration Date:**

**Recipients Received:**