

## **NRR-PMDAPem Resource**

---

**From:** Klos, John  
**Sent:** Wednesday, January 04, 2017 7:08 AM  
**To:** Garcia, Richard M.  
**Cc:** Klos, John  
**Subject:** Re: RE: EICB RAIs for Columbia MUR (CAC No. MF8060)

Mr Garcia

I am writing to acknowledge the reschedule of RAIs below to January 13, 2017.

Thank you

John Klos

On: 03 January 2017 15:44, "Garcia, Richard M." wrote:

John,  
We would like to formally request additional time to submit the response to the EICB questions below. Our ability to deliver these responses by the current January 5<sup>th</sup> due date has been challenged due to a forced plant outage and recovery resulting from a weather related load reject as well as reduced work hours due to adverse weather conditions. A revised due date of January 13, 2017 is requested. Thanks,

**Rick Garcia**  
**Licensing**  
**Energy Northwest - Columbia**  
**Tel 509-377-8463**  
**Fax 509-377-4317**

---

**From:** Klos, John [mailto:John.Klos@nrc.gov]  
**Sent:** Wednesday, November 16, 2016 11:40 AM  
**To:** Garcia, Richard M.  
**Cc:** Klos, John  
**Subject:** FW: EICB RAIs for Columbia MUR (CAC No. MF8060)

**EXTERNAL: Think Before You Click!**

Email sent from: "Klos, John" [prvs=121d4f123=John.Klos@nrc.gov](mailto:John.Klos@nrc.gov)

Dear Mr. Garcia,  
By letter dated June 28, 2016, (Agencywide Documents Access and Management System (ADAMS) Accession No. ML16183A365), as supplemented by letter dated August 18, 2016 (ADAMS Accession No. ML16231A511), Energy Northwest submitted a license amendment for Columbia Generating Station (CGS). The proposed amendment would revise the operating license and technical specifications to implement an increase in rated thermal power from the current licenses thermal power of 3486 megawatts thermal (MWt) to a measurement uncertainty recapture thermal power of 3544 MWt.

The U.S. Nuclear Regulatory Commission (NRC) staff, specifically the Instrumentation and Controls Branch (EICB) in the Office of Nuclear Reactor Regulation, has reviewed the submittal and determined that the attached request for additional information (RAIs) are needed to complete its technical review and make a regulatory finding regarding this license amendment request.

Please see the formal RAIs below. A clarification call was held on November 16, 2016 to ensure your staff understood the RAIs. In the clarification call, Energy Northwest agreed to submit the response to the RAIs by Thursday Jan 5, 2017.

**REQUEST FOR ADDITIONAL INFORMATION**

**MEASUREMENT UNCERTAINTY RECAPTURE POWER UPRATE**

**LICENSE AMENDMENT REQUEST**

**COLUMBIA GENERATING STATION**

**DOCKET NO. 50-397**

**CAC NO. MF8060**

By letter dated June 28, 2016, (Agencywide Documents Access and Management System (ADAMS) Accession No. ML16183A365), as supplemented by letter dated August 18, 2016 (ADAMS Accession No. ML16231A511), Energy Northwest submitted a license amendment for Columbia Generating Station (CGS). The proposed amendment would revise the operating license and technical specifications (TS) to implement an increase in rated thermal power from the current licenses thermal power of 3486 megawatts thermal (MWt) to a measurement uncertainty recapture (MUR) thermal power of 3544 MWt.

The U.S. Nuclear Regulatory Commission (NRC) staff, specifically the Instrumentation and Controls Branch (EICB) in the Office of Nuclear Reactor Regulation, has reviewed the submittal and determined that the following request for additional information (RAIs) are needed to complete its technical review and make a regulatory finding regarding this license amendment request.

**EICB-RAI 1**

In TS 3.3.6.1, "Primary Containment Isolation Instrumentation," Table 3.3.6.1-1, "Primary Containment Isolation Instrumentation Function," Function 1.c "Main Steam Line Flow – High" is being revised from an Allowable Value of  $\leq 124.4$  pounds per square inch – differential (psid) to  $\leq 137.9$  psid. This change is being made due to the increased steam flow at the MUR power level.

In Section 5.3.5, "Main Steam Line High Flow Isolation," of Enclosure 7 to the application, General Electric-Hitachi (GEH) Report NEDC-33853P, "Safety Analysis Report for Columbia Generating Station Thermal Power Optimization," Revision 0 (proprietary), the licensee states that the Analytical Limit of 140% was not changed but the Allowable Value (AV) for this function was recalculated using the GEH methodology and a TS AV change is required to change the differential pressure at the allowable steam flow.

In Section 2.5 of the application, the licensee proposes to revise the AV for Main Steam Line Flow-High from a current value of  $\leq 124.4$  psid to  $\leq 137.9$  psid.

In order to meet the requirements of Title 10 of the *Code of Federal Regulations* 50.36, "Technical specifications," and Regulatory Guide 1.105, "Setpoints for Safety-related Instrumentation," Revision 3, dated December 1999, please provide a summary of the calculation used to calculate the revised AV on the docket.

Thank you,

**John Klos**

**DORL Callaway, Columbia Project Manager**

**U.S. NRC, Office of Nuclear Reactor Regulation,**

**Division of Operating Reactor Licensing, O8E7**

**NRC/NRR/DORL/LPL4-1, MS O8H4A**

**Washington, DC 20555-0001**

**301.415.5136, 301.415.2102 (fax)**

**[John.Klos@NRC.gov](mailto:John.Klos@NRC.gov)**

-- Reputation Score:3.5 Remote Host: mail2.nrc.gov

**Hearing Identifier:** NRR\_PMDA  
**Email Number:** 3245

**Mail Envelope Properties** (62F77CCA4B8F5E429FD83285FBB684DAFA5F1D38)

**Subject:** Re: RE: EICB RAIs for Columbia MUR (CAC No. MF8060)  
**Sent Date:** 1/4/2017 7:08:26 AM  
**Received Date:** 1/4/2017 7:08:27 AM  
**From:** Klos, John

**Created By:** John.Klos@nrc.gov

**Recipients:**  
"Klos, John" <John.Klos@nrc.gov>  
Tracking Status: None  
"Garcia, Richard M." <rmgarcia@energy-northwest.com>  
Tracking Status: None

**Post Office:** unknown

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	5161	1/4/2017 7:08:27 AM

**Options**  
**Priority:** Standard  
**Return Notification:** No  
**Reply Requested:** No  
**Sensitivity:** Normal  
**Expiration Date:**  
**Recipients Received:**