



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

February 3, 2011

Mr. S.K. Gambhir, Vice President, Engineering
Columbia Generating Station
Energy Northwest
MD PE04
P.O. Box 968
Richland, WA 99352-0968

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE
COLUMBIA GENERATING STATION, LICENSE RENEWAL APPLICATION
FOR METAL FATIGUE (TAC NO. ME3058)

Dear Mr. Gambhir:

By letter dated January 19, 2010, Energy Northwest submitted an application pursuant to Title 10 of the *Code of Federal Regulations* Part 54 (10 CFR Part 54), to renew operating license NPF-21 for Columbia Generating Station, for review by the U.S. Nuclear Regulatory Commission (NRC or the staff). The staff is reviewing the information contained in the license renewal application and has identified, in the enclosure, areas where additional information is needed to complete the review. Further requests for additional information may be issued in the future.

Items in the enclosure were discussed with Abbas Mostala and a mutually agreeable date for the response is within 30 days from the date of this letter. If you have any questions, please contact me at 301-415-3897 or by e-mail at arthur.cunanan@nrc.gov.

Sincerely,

A handwritten signature in black ink that reads "Arthur Cunanan". The signature is fluid and cursive, with a long, sweeping underline.

Arthur Cunanan, Project Manager
Projects Branch 1
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket No. 50-397

Enclosure:
As stated

cc w/encl: Distribution via Listserv

COLUMBIA GENERATING STATION
LICENSE RENEWAL APPLICATION
REQUEST FOR ADDITIONAL INFORMATION

RAI 4.3-09

Background and Issue

In the response to RAI 4.3-06, dated November 11, 2010, the applicant provided the basis for not selecting the core shroud supports, main steam shell nozzles, and LPCI nozzle thermal sleeves as additional environmentally-assisted fatigue analysis locations. The staff noted that the applicant's plant-specific configuration may contain additional locations (including but not limited to those provided in LRA Tables 4.3-3 and 4.3-5) that may need to be analyzed for the effects of the reactor coolant environment other than those identified in NUREG/CR-6260. This may include locations that are limiting or bounding for the applicant's particular plant-specific configuration, or that have calculated environmentally-adjusted CUF values that are greater than those calculated by the applicant for locations that correspond to those identified in NUREG/CR-6260.

Request

Confirm and justify that the locations selected for environmentally assisted fatigue analyses in LRA Table 4.3-6 consists of the most limiting locations for the plant (beyond the generic components identified in the NUREG/CR-6260 guidance). If these locations are not bounding, clarify the locations that require an environmentally assisted fatigue analysis and the actions that will be taken for these additional locations. If the limiting location identified consists of nickel alloy, state whether the methodology used to perform the environmentally-assisted fatigue calculation for nickel alloy is consistent with NUREG/CR-6909. If not, justify the method chosen.

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DATE	1/31/11	1/27/11	2/3/11	2/3/11

OFFICIAL RECORD COPY

Letter to S.K. Gambhir from A. Cunanan dated February 3, 2011

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COLUMBIA GENERATING STATION, LICENSE RENEWAL APPLICATION
FOR METAL FATIGUE (TAC NO. ME3058)

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