



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION IV  
1600 E. LAMAR BLVD.  
ARLINGTON, TX 76011-4511

March 1, 2016

Mr. M. E. Reddemann  
Chief Executive Officer  
Energy Northwest  
P.O. Box 968, Mail Drop 1023  
Richland, WA 99352-0968

**SUBJECT: COLUMBIA GENERATING STATION – NOTIFICATION OF DESIGN BASES  
INSPECTION (PROGRAMS) (INSPECTION REPORT 05000397/2016008) AND  
INITIAL REQUEST FOR INFORMATION**

Dear Mr. Reddemann,

On May 9, 2016, the U.S. Nuclear Regulatory Commission (NRC) will begin an inspection at the Columbia Generating Station. A three person team will perform this inspection using NRC Inspection Procedure 71111.21N, "Design Bases Inspection (Programs)"; Attachment 1, "Environmental Qualification under 10 CFR 50.49 Programs, Processes, and Procedures."

This inspection will evaluate the implementation of the electrical equipment qualification program, as required by the Columbia Generating Station Operating License. Additionally, the team will perform an inspection of the equipment qualification documentation files to verify that electrical equipment important to safety meets the requirements of 10 CFR 50.49. The team will select components that will be subjected to harsh environments and are required to mitigate the consequences of a design basis accident.

The inspection will include an information gathering site visit by the team leader and a senior reactor analyst, and one week of onsite inspection by the team. The inspection will consist of three NRC inspectors. The current inspection schedule is as follows:

Onsite Information Gathering Visit: March 28-March 31, 2016 (Tentative)  
In-Office Preparation Week: May 2-6, 2016  
Onsite Weeks: May 9-13, 2016

The purpose of the information gathering visit is to meet with members of your staff, and to become familiar with the Columbia Generating Station environmental qualification program. The lead inspector will request a meeting with your personnel to discuss the site environmental qualification program and procedures. Additionally, the lead inspector will request a discussion with your staff to become familiar with the equipment qualification regulations and standards to which the site is committed. Additional information and documentation needed to support the inspection will be identified during the inspection, including interviews with engineering managers and engineers.

Our experience with these inspections has shown that they are extremely resource intensive, both for the NRC inspectors and the licensee staff. In order to minimize the inspection impact on the site and to ensure a productive inspection, we have enclosed a request for information

needed for the inspection. This information should be available to the lead inspector during the information gathering visit, March 28-31, 2016. Since the inspection will be concentrated on equipment qualification, the Equipment Qualification Master List (EQML) should be available to review during the information gathering visit to assist in our selection of components.

It is requested that this information be provided to the lead inspector as the information is generated during the inspection. Additional requests by inspectors will be made during the onsite week for specific documents needed to complete the review of that component/selection. It is important that all of these documents are up to date and complete in order to minimize the number of additional documents requested during the preparation and/or the onsite portions of the inspection. In order to facilitate the inspection, we request that a contact individual be assigned to each inspector to ensure information requests, questions, and concerns are addressed in a timely manner.

The lead inspector for this inspection is Mr. Ronald A. Kopriva. We understand that our licensing engineer contact for this inspection is Ms. Tracey Parmelee. If there are any questions about the inspection or the requested materials, please contact the lead inspector by telephone at 817-200-1104 or by e-mail at [Ron.Kopriva@nrc.gov](mailto:Ron.Kopriva@nrc.gov).

This letter does not contain new or amended information collection requirements subject to the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.). Existing information collection requirements were approved by the Office of Management and Budget, control number 3150-0011. The NRC may not conduct or sponsor, and a person is not required to respond to, a request for information or an information collection requirement unless the requesting document displays a currently valid Office of Management and Budget control number.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be made available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,

/RA/

Thomas R. Farnholtz, Chief  
Engineering Branch 1  
Division of Reactor Safety

Docket: 50-397  
License: NPF-21

Enclosure: Design Bases Inspection (Programs)  
Environmental Qualification Request for Information

Electronic Distribution for the Columbia Generating Station

**Initial Request for Information  
Design Bases Inspection (Programs), Environmental Qualification  
Columbia Generating Station**

Inspection Report: 05000397

Information Gathering Dates: March 28-31, 2016 (Tentative)

Inspection Dates: May 9-13, 2016

Inspection Procedure: IP 71111, Attachment 21N, "Design Bases Inspection (Programs)"

Lead Inspector: Ronald A. Kopriva, Senior Reactor Inspector

***I. Information Requested for Information Gathering Visit (March 28-31, 2016)***

The following information should be provided to the lead inspector in hard copy or electronic format (Certrec IMS preferred), to the attention of Ronald A. Kopriva, March 28-31, 2016, to facilitate the reduction in the items to be selected for a final list of components. The inspection team will finalize the selected list during the prep week using the documents requested in this enclosure. The specific items selected from the lists shall be available and ready for review on the day indicated in this request. \*Please provide requested documentation electronically in "pdf" files, Excel, or other searchable formats, if possible. The information should contain descriptive names, and be indexed and hyperlinked to facilitate ease of use. Information in "lists" should contain enough information to be easily understood by someone who has knowledge of boiling water reactor technology. If requested documents are large and only hard copy formats are available, please inform the inspector(s), and provide subject documentation during the first day of the onsite inspection.

1. List of components that are in Equipment Qualification Master List. If plant is approved to categorize structures, systems, and component in accordance with 10 CFR 50.69, please provide the Risk Informed Safety Category of the component.
2. Listing of the Equipment Qualification Master List components sorted by Fussell-Vesely risk importance.
3. List of all post-accident monitoring instrumentation components and locations.
4. Columbia Generating Station, word-searchable, Updated Final Safety Analysis Report, License Conditions, and Technical Specifications. Specifically identify which UFSAR sections address environmental (including seismic) qualification, seismic.
5. NRC Safety Evaluation Report(s) associated with Columbia Generating Station environmental qualification program.
6. Identify the various environmental qualification standards (including year, edition, or revision) that Columbia Generating Station is committed.

7. Identify whether the unit has entered its period of extended operation (i.e., operation past the original 40 year license period).
8. Selected (not all) equipment qualification documentation files for a sample of electrical equipment listed on the Equipment Qualification Master List (e.g., transmitter, limit switch, motor, MOV actuator, cable, solenoid).
9. Site (and corporate if applicable) procedures associated with the 10 CFR 50.49 environmental qualification program for electrical components. Additionally, please provide similar procedures used to verify mechanical components meet their 10 CFR 50, Appendix A, Criterion 4, "Environmental and Dynamic Effects Design Bases." Include procedures for procurement of qualified equipment, maintenance of qualified equipment, and modification to qualified equipment (including equivalency or commercial grade dedication programs).
10. Site high energy line break analyses, including associated plant area drawings.
11. Procedures for material storage and shelf life controls.
12. List of commercial grade dedication evaluations performed, for which the dedicated parts have been issued for installation on equipment qualification applications in the plant, for the previous five years. Include description of the component the part was issued to repair, work order, and date issued or installed.
13. Any self-assessments and quality assurance assessments of the environmental qualification program performed in the previous 5 years.
14. List of systems (system numbers/designators and corresponding names).
15. Interview with representative to discuss site high energy line break (HELB) analyses, plant drawings, and assumptions.
16. Interview with representative to discuss environmental qualification mandated maintenance elements are integrated into plant programs and procedures.
17. Interview with representative to discuss maintaining qualification for plant/equipment that has entered its period of extended operation, if applicable.

**II. Information Requested once Components are Selection (May 4, 2016)**

1. List of condition reports related to the equipment qualification program or environmental qualification of components (both electrical and mechanical) for the previous 5 years.
2. List of modifications, repairs, or replacement of Equipment Qualification Master List components completed for the previous 5 years.

3. List of modifications, repairs, or replacements of safety-related mechanical components located within high energy line break for the previous 5 years.
4. List of modifications, repairs, or replacements of containment penetrations and safety related valves/pumps which take suction on the containment sump following a design basis loss-of-coolant accident for the previous 5 years.
5. Request Vendor Technical Documents for Selected Components.

Inspector Contact Information:

Ronald A. Kopriva  
Senior Reactor Inspector  
817-200-1104  
Ron.Kopriva@nrc.gov

Jonathan Braisted  
Reactor Inspector  
817-200-1194  
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Nnaerika Okonkwo  
Reactor Inspector  
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Mailing Address:

U.S. NRC, Region IV  
Attn: Ron Kopriva  
1600 East Lamar Blvd.  
Arlington, TX 76011-4511

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Sincerely,

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Thomas R. Farnholtz, Chief  
Engineering Branch 1  
Division of Reactor Safety

Docket: 50-397  
License: NPF-21

Enclosure: Design Bases Inspection (Programs)  
Environmental Qualification Request for Information

Electronic Distribution for Columbia Generating Station

Distribution: See next page

ADAMS ACCESSION NUMBER: ML16061A566

<input checked="" type="checkbox"/> SUNSI Review By: RAK	ADAMS: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Sensitive <input checked="" type="checkbox"/> Non-Sensitive	<input type="checkbox"/> Non-Publicly Available <input checked="" type="checkbox"/> Publicly Available	Keyword NRC-002
OFFICE	DRS/EB1/SRI:			EB1/C:
NAME	R. Kopriva			T. Farnholtz
SIGNATURE	/RA/			/RA/
DATE	3/1/2016			3/1/2016

OFFICIAL RECORD COPY

Letter to M. E. Reddmann from Thomas R. Farnholtz dated March 1, 2016

SUBJECT: COLUMBIA GENERATING STATION – NOTIFICATION OF DESIGN BASES  
INSPECTION (PROGRAMS) (INSPECTION REPORT 05000397/2016008) AND  
INITIAL REQUEST FOR INFORMATION

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