

June 24, 2010

Mr. W.S. Oxenford, Vice President,
Nuclear Generation and Chief Nuclear Officer
Columbia Generating Station
Energy Northwest
MD PE08
P.O. Box 968
Richland, WA 99352

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE
COLUMBIA GENERATING STATION, LICENSE RENEWAL APPLICATION –
SCOPING AND SCREENING METHODOLOGY

Dear Mr. Oxenford:

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 301-415-4029 or by e-mail at evelyn.gettys@nrc.gov.

Sincerely,

/RA/

Evelyn Gettys, Project Manager
Projects Branch 1
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket No. 50-397

Enclosure:
As stated

cc w/encl: See next page

June 24, 2010

Mr. W.S. Oxenford, Vice President,
Nuclear Generation and Chief Nuclear Officer
Columbia Generating Station
Energy Northwest
MD PE08
P.O. Box 968
Richland, WA 99352

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE
COLUMBIA GENERATING STATION, LICENSE RENEWAL APPLICATION –
SCOPING AND SCREENING METHODOLOGY

Dear Mr. Oxenford:

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 301-415-4029 or by e-mail at evelyn.gettys@nrc.gov.

Sincerely,

/RA/

Evelyn Gettys, Project Manager
Projects Branch 1
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket No. 50-397

Enclosure:
As stated

cc w/encl: See next page

DISTRIBUTION:
See next page

ADAMS Accession No.: ML101650276

OFFICE	PM:RPB1:DLR	LA:DLR	BC: RPB1:DLR	PM:RPB1:DLR
NAME	EGettys	IKing	BPham	EGettys
DATE	6/21/10	6/18/10	6/22/10	6/24/10

OFFICIAL RECORD COPY

Letter to W.S. Oxenford from Evelyn H. Gettys dated June 24, 2010

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE
COLUMBIA GENERATING STATION, LICENSE RENEWAL APPLICATION –
SCOPING AND SCREENING METHODOLOGY

DISTRIBUTION:

HARD COPY:

DLR RF

E-MAIL:

PUBLIC

RidsNrrDir Resource

RidsNrrDirRpb1 Resource

RidsNrrDirRpb2 Resource

RidsNrrDirRarb Resource

RidsNrrDirRapb Resource

RidsNrrDirRasb Resource

RidsNrrDirRerb Resource

RidsNrrDirRpob Resource

EGettys

DDoyle

FLyon

AMostala

WWalker, RIV

RCohen, RIV

LSubin, OGC

COLUMBIA GENERATING STATION
LICENSE RENEWAL APPLICATION
REQUEST FOR ADDITIONAL INFORMATION

RAI 2.3.3.22-1

License renewal application (LRA) drawing LR-M515-1, shows that several yard fire hydrants and post indicator valves are out of scope (i.e., not colored in green). The staff believes that yard fire hydrants and post indicator valves have the fire protection intended functions required to be compliant with 10 CFR 50.48 as stated in 10 CFR 54.4. The fire hydrants also serve as the pressure boundary for the fire protection water supply system. Further, NUREG-0892, "Safety Evaluation Report related to the operation of WPPSS Nuclear Project No. 2," dated March 1982, Section 9.5.1.6, "Fire Detection and Suppression," on page 9-33, states that "fire hydrants are provided on the yard main at 300-foot intervals. A hydrant hose house is provided at each hydrant with 200 feet of 2 ½ in. hose and other equipment. A valve is provided in each hydrant lateral to facilitate hydrant maintenance and repair without interrupting flow in the underground pipe loop..." The staff requests that the applicant verify whether the yard hydrants and valves are in the scope of license renewal in accordance with 10 CFR 54.4(a) and whether they are subject to an aging management review (AMR) in accordance with 10 CFR 54.21(a)(1). If they are excluded from the scope of license renewal and are not subject to an AMR, the staff requests that the applicant provide justification for the exclusion.

RAI 2.3.3.22-2

The fire protection components including jockey pump (FP-P-3), valves, piping, and fittings are not highlighted in the LRA drawing LR-M515-1 as components within the scope of license renewal and subject to an AMR. Further, NUREG-0892, "Safety Evaluation Report related to the operation of WPPSS Nuclear Project No. 2," dated March 1982, Section 9.5.1.6, "Fire Detection and Suppression," on page 9-33, states that "a separate jockey pump, rated at 50 gpm at 100 psig, maintain[s] the yard fire main pressure at 100 to 125 psig..." The staff believes that these fire protection components perform a pressure boundary intended function consistent with rest of the fire protection system in scope. The staff requests that the applicant verify whether the fire protection components listed above are in the scope of license renewal in accordance with 10 CFR 54.4(a) and whether they are subject to an AMR in accordance with 10 CFR 54.21(a)(1). If they are excluded from the scope of license renewal and are not subject to an AMR, the staff requests that the applicant provide justification for the exclusion.

RAI 2.3.3.22-3

LRA drawing LR-M515-1, shows that several fire suppression systems (Building 5, Building 6, and Building 8) are out of scope (i.e., not colored in green). The staff requests that the applicant verify whether these fire water suppression systems installed in various buildings of the plant are in the scope of license renewal in accordance with 10 CFR 54.4(a) and subject to an AMR in accordance with 10 CFR 54.21(a)(1). If they are excluded from the scope of license renewal and not subject to an AMR, the staff requests that the applicant provide justification for the exclusion.

ENCLOSURE

RAI 2.3.3.22-4

LRA drawing LR-M515-4 shows that the fire suppression systems installed in the Turbine Building are out of scope (i.e., not colored in green). The staff requests that the applicant verify whether the Turbine Building fire water suppression systems are in the scope of license renewal in accordance with 10 CFR 54.4(a) and subject to an AMR in accordance with 10 CFR 54.21(a)(1). If they are excluded from the scope of license renewal and not subject to an AMR, the staff requests that the applicant provide justification for the exclusion.

RAI 2.3.3.22-5

LRA drawing LR-M573-2 show that the following fire protection components - pumps, tank, piping, valves, drains, and test connections - are out of scope (i.e., not colored in green). The staff requests that the applicant verify whether these fire protection components are in the scope of license renewal in accordance with 10 CFR 54.4(a) and subject to an AMR in accordance with 10 CFR 54.21(a)(1). If they are excluded from the scope of license renewal and not subject to an AMR, the staff requests that the applicant provide justification for the exclusion.

RAI 2.3.3.22-6

LRA Section 2.3.3.22, on page 2.3-93, states that “the low pressure carbon dioxide system automatically provides fire protection for turbine generator exciter housing. A manual carbon dioxide hose station, with reel and hose, is also provided for exciter housing protection on the turbine generator floor....” The automatic carbon dioxide (CO₂) fire suppression system and manual CO₂ hose station, with reel and hose, do not appear in LRA drawings as being in the scope of the license renewal and subject to an AMR. The staff requests that the applicant verify whether these CO₂ fire suppression features are in the scope of license renewal in accordance with 10 CFR 54.4(a) and subject to an AMR in accordance with 10 CFR 54.21(a)(1). If they are excluded from the scope of license renewal and not subject to an AMR, the staff requests that the applicant provide justification for the exclusion.

RAI 2.3.3.22-7

LRA Section 2.3.3.22, on page 2.3-93, states that “Halon 1301 suppression systems are installed in normally occupied areas where the application of water would be inappropriate. Halon 1301 provides automatic fire protection for the main control room Power Generation Control Cabinet (PGCC) under the floor. Eighteen Halon 1301 system[s] are installed in various main control room PGCC sub-floor duct sections to discharge on activation of their associated thermal detector units....” The eighteen main control room PGCC Halon 1301 fire suppression systems do not appear in LRA drawings as being in the scope of the license renewal and subject to an AMR. The staff requests that the applicant verify whether these Halon 1301 fire suppression systems are in the scope of license renewal in accordance with 10 CFR 54.4(a) and subject to an AMR in accordance with 10 CFR 54.21(a)(1). If they are excluded from the scope of license renewal and not subject to an AMR, the staff requests that the applicant provide justification for the exclusion.

RAI 2.3.3.22-8

LRA Section 2.3.3.22, on page 2.3-94, states that “A dry chemical system is installed in approved portable hazardous material storage buildings within the plant. The system automatically actuates by melting of the fusible links or manually by a local pull station....” The dry chemical fire suppression system does not appear in LRA drawings as being in the scope of the license renewal and subject to an AMR. The staff requests that the applicant verify whether the above dry chemical fire suppression system is in the scope of license renewal in accordance with 10 CFR 54.4(a) and subject to an AMR in accordance with 10 CFR 54.21(a)(1). If the system is excluded from the scope of license renewal and not subject to an AMR, the staff requests that the applicant provide justification for the exclusion.

RAI 2.3.3.22-9

Tables 2.3.3-22 and 3.3.2-22 of the LRA do not include the following fire protection components:

- fire hose stations, fire hose connections, and hose racks
- pipe fittings, pipe supports, hangers, and couplings
- flow elements
- flow indicators
- strainers
- filter housings
- test connections
- sprinklers
- floor drains for fire water
- dikes and curbs for oil spill confinement

The staff requests that the applicant verify whether the fire protection components listed above are in the scope of license renewal in accordance with 10 CFR 54.4(a) and whether they are subject to an AMR in accordance with 10 CFR 54.21(a)(1). If they are excluded from the scope of license renewal and are not subject to an AMR, the staff requests that the applicant provide justification for the exclusion.

RAI 2.4.13-1

LRA Section 2.1.2.2, “Screening of Structures,” provides the methodology for determining the structures and components including fire barriers within the scope of license renewal. LRA Section 2.4.13, “Bulk Commodities,” and Table 2.4-13 provide the results of scoping and screening of structures including fire barriers. However, scoping and screening results do not provide the type of fire barriers present in various fire areas of the plant. The staff requests that the applicant provide details of fire barrier type and material in each plant fire area within scope of license renewal in accordance with 10 CFR 54.4(a) and subject to an AMR in accordance with 10 CFR 54.21(a)(1). For any fire barrier type or material that is excluded from the scope of license renewal and is not subject to an AMR, the staff requests that the applicant provide justification for the exclusion.

Columbia Generating Station

cc:

Mr. J.V. Parrish, Chief Executive Officer
Energy Northwest
MD 1023
P.O. Box 968
Richland, WA 99352-0968

EFSEC Manager
Energy Facility Site Evaluation Council
P.O. Box 43172
Olympia, WA 98504-3172

Mr. S. K. Gambhir
Energy Northwest
MD PE04
P.O. Box 968
Richland, WA 99352-0968

Mr. Abbas Mostala
Energy Northwest
PO Box 968
MD PE 29
Richland, WA 99352-0968

Mr. Douglas W. Coleman, Manager,
Regulatory Programs
Energy Northwest
P.O. Box 968
MD PE20
Richland, WA 99352-0968

Mr. William A. Horin, Esq.
Winston and Strawn
1700 K Street, NW
Washington, DC 20006-3817

Chairman, Benton County
Board of Commissioners
P.O. Box 190
Prosser, WA 99350-0190

Mr. Richard Cowley
Washington State Department of
Health
111 Israel Road, SE
Tumwater, WA 98504-7827

Mr. Ron Cohen
U.S. Nuclear Regulatory Commission
P.O. Box 69
Richland, WA 99352

Regional Administrator
U.S. NRC Region IV
Texas Health Resources Tower
612 E. Lamar Boulevard, Suite 400
Arlington, TX 76011-4125