

**From:** Richard Domingue  
**To:** Balsam, Briana; Mark Ames  
**Subject:** Re: FW: Columbia: Call between NRC and NMFS on 7/3  
**Date:** Thursday, June 28, 2012 6:19:36 PM

[mark.eames@noaa.gov](mailto:mark.eames@noaa.gov)

On Thu, Jun 28, 2012 at 1:51 PM, Balsam, Briana <[Briana.Balsam@nrc.gov](mailto:Briana.Balsam@nrc.gov)> wrote:

Rich,

I must have put Mark's email address in wrong. Can you forward him the previous email and CC me so that I have the correct email address? Thanks.

Briana

**From:** Balsam, Briana  
**Sent:** Thursday, June 28, 2012 4:46 PM  
**To:** 'ritchie.graves@noaa.gov'; 'richard.domingue@noaa.gov'; 'mark.ames@noaa.gov'; Logan, Dennis; Susco, Jeremy; Folk, Kevin; Balsam, Briana; Subin, Lloyd; Folk, Kevin  
**Subject:** Columbia: Call between NRC and NMFS on 7/3

All,

I have set up a conference call number for a call between NRC and NMFS on **July 3 at 3:45pm EST/12:45pm PST** to discuss the ongoing ESA consultation at Columbia Generating Station and the contents of NMFS's June 11 letter to NRC.

NMFS folks—I understand that it will be Rich Domingue, Richie Graves, and Mark Ames participating from your side. If you need to add anyone else, let me know and I can add another call-in line to the conference call.

The call-in number is: (888) 787-0206

The pass code is:

(b)(6)

Thanks,

Briana

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Briana A. Balsam

Biologist

Division of License Renewal

Office of Nuclear Reactor Regulation

U.S. Nuclear Regulatory Commission

301-415-1042

[briana.balsam@nrc.gov](mailto:briana.balsam@nrc.gov)

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Richard Domingue  
503-231-6858

## **Health Physics**

Lead: NRC

PNNL POC: None

NRC POC: Steve Klementowicz, 301-415-1084, [stephen.klementowicz@nrc.gov](mailto:stephen.klementowicz@nrc.gov)

NRC POC: Bill Rautzen, 301-415-7206, [william.rautzen@nrc.gov](mailto:william.rautzen@nrc.gov)

- HP-1. Information on any abnormal, unusual spills, and leaks of radioactive material that occurred onsite that are applicable to the criteria in 10 CFR 50.75(g) and NEI 07-07, "Industry Ground Water Protection Initiative – Final Guidance Document."
- HP-2. Information on any on-site disposals of low-level radioactive waste.
- HP-3. Information on the radiological groundwater protection program.
- HP-4. Tour to cover the following:
  - a. Low-level radioactive waste storage.
  - b. Radioactive effluent release points.
  - c. Radioactive effluent monitoring systems.
  - d. Radiological environmental monitoring stations (air monitoring stations, including any co-located state monitoring stations).

## **Terrestrial**

Lead: NRC

PNNL POC: None

NRC POC: Allison Travers, 301-415-8395, [allison.travers@nrc.gov](mailto:allison.travers@nrc.gov)

NRC POC: Rich Bulavinetz, 301-415-3607, [richard.bulavinetz@nrc.gov](mailto:richard.bulavinetz@nrc.gov)

All requests for information regarding transmission line rights-of-way (ROWs) assume that the following transmission lines are included in the proposed action –

- The 500-kV line between BPA's Ashe Substation and the Hanford Substation 17.5 miles to the northwest (pp 3-11 and D-13 of the ER)
  - 230-kV line that shares the 500 kV ROW for 7.25 miles and then runs north for about 2.5 miles (described on page D-13 of the ER)
  - 115-kV backup power source for safe shutdown under accident conditions (pp 3-11 and D-13 of the ER)
  - 0.5 mile segment of the 230-kV and 500-kV lines between the power plant and Ashe substation (pp 3-11 and D-13 of the ER)
- TE-1. Please provide any aerial photos and topographic maps you have of the ROWs. Specifically, topographic maps of the site and in-scope transmission line segments that show any significant natural heritage areas, stream crossings, historical sightings of endangered species, and migratory bird rookeries. Additionally, please provide percentages of terrestrial communities on site (e.g. 20% of the site is forest habitat).
- TE-2. Please provide the in-scope transmission line ROW maintenance plans and the names of any ROW maintenance contractors.
- TE-3. What pesticides and/or herbicides are used onsite or within the in-scope transmission line ROWs? What protocol do contractors follow when applying chemicals near streams and wetlands? Are there any special procedures used in areas that contain species of concern (federal or state) or habitats identified as unique, rare, or a priority for protection by Native American tribal agencies?
- TE-4. Have surveys for state and/or federal threatened and endangered species been conducted within the transmission line ROWs?
- TE-5. During the transmission line tour, NRC staff would like to see representative examples of ROW land, including stream and wetland crossings (if applicable).
- TE-6. Please provide any information on any bird strikes (including birds of prey and migratory birds) that have occurred at the reactor building, the meteorological tower, or along the in-scope transmission line ROWs. Provide a description of reporting procedures for raptor and other bird strikes at transmission lines and cooling towers.
- TE-7. Please provide any wildlife management plans used on site.
- TE-8. Please provide any best management procedures followed for ground-disturbing activities and activities that could disturb nesting migratory birds.

TE-9. Have any invasive species been seen or documented on the site or in the transmission line ROWs? Are any invasive species populations being managed, or have any been managed in the past?

TE-10. Please provide any information on wildlife use of the onsite ponds (described on pages 2-22 and 3-9 of the ER) –

- Unlined evaporation/percolation pond
- Sanitary Waste Ponds
- Outfall 003

## **Hydrology & Water Quality**

Lead: PNNL

PNNL POC: Lance Vail, 509-372-6237, [lance.vail@pnl.gov](mailto:lance.vail@pnl.gov)

NRC POC: Dennis Beissel, 301-415-2145, [dennis.beissel@nrc.gov](mailto:dennis.beissel@nrc.gov)

HY-1.        Discharge Monitoring Reports for the last 6 months

## **Aquatic Ecology/Marine Biology**

Lead: PNNL

PNNL POC: Amoret Bunn, 509-372-4782, [amoret.bunn@pnl.gov](mailto:amoret.bunn@pnl.gov)

NRC POC: Dennis Logan, 301-415-0490, [dennis.logan@nrc.gov](mailto:dennis.logan@nrc.gov)

- AQ-1. References cited in the ER on aquatic ecology should be available for review at the site audit. Of particular interest are the company specific documents that are not readily available, such as:
- a. WPPSS 1982. Technical Review of the Aquatic Monitoring Program of WNP-2, Washington Public Power Supply System, Richland, Washington, September 1982.
  - b. WPPSS 1986. Operational Ecological Monitoring Program for Nuclear Plant 2 – 1985 Annual Report, Washington Public Power Supply System, prepared April 1986.
  - c. WPPSS 1987. Operational Ecological Monitoring Program for Nuclear Plant 2 – 1986 Annual Report, Washington Public Power Supply System, prepared April 1987.
  - d. WPPSS 1988. Operational Ecological Monitoring Program for Nuclear Plant 2 – 1987 Annual Report, Washington Public Power Supply System, prepared April 1988.
  - e. WPPSS 1996. Operational Ecological Monitoring Program for Nuclear Plant 2 – 1995 Annual Report, Washington Public Power Supply System, prepared April 1996.
- AQ-2. Map of salmon redds (chinook and steelhead) in the vicinity of the makeup water and discharge lines for the circulating water system.
- AQ-3. Describe any general maintenance procedures, if any, for the makeup water and discharge lines for the circulating water system. Are there any issues with biofouling, debris accumulation, or other issues with the submerged makeup water and discharge lines?
- AQ-4. Was NOAA Fisheries contacted concerning compliance with the Magnuson-Stevens Fishery Conservation and Management Act (16 USC 1801 et seq.) and identification of essential fish habitat for the Pacific Salmon Fishery?
- AQ-5. Include a tour to the makeup water pumphouse as part of the site audit.

## **Cultural Resources/Archaeology**

Lead: PNNL

PNNL POC: Tara O'Neil, 541-740-2171, [tara.oneil@pnl.gov](mailto:tara.oneil@pnl.gov)

NRC POC: Jeff Rikhoff, 301-415-1090, [jeffrey.rikhoff@nrc.gov](mailto:jeffrey.rikhoff@nrc.gov)

- CR-1. Describe the process to identify Tribes and interested parties to consult with regarding the potential impacts to cultural resources as a result of the proposed project.
- CR-2. Provide copies of all consultation letters with SHPO, Tribes, and interested parties as well as response letters and comments received from the SHPO, Tribes, and interested parties as a result of the proposed project.
- CR-3. Describe the cultural background (prehistoric and historic) at Columbia Generating Station and the vicinity to put the historical properties in context.
- CR-4. Identify the status of the 106 consultation process.
- CR-5. Provide a knowledgeable expert at the environmental site visit who can describe the Area of Potential Effect (APE) and the cultural resources located within.
- CR-6. Provide copies of relevant cultural resources reports and site forms for the CGS property and the associated survey reports for the transmission line corridors. Provide copies of all relevant reports and site forms associated with the APE.
- CR-7. Provide the references presented in the ER regarding cultural resources.
- CR-8. Provide copies of procedures that identify measures to be taken if cultural resources and/or human remains are inadvertently discovered during operation and maintenance activities.
- CR-9. Provide pre- and post-construction aerial photographs, if available.
- CR-10. Provide a knowledgeable expert at the environmental site visit to discuss cultural resources at CGS and the impacts the proposed action may have on cultural resources at CGS.
- CR-11. Provide a knowledgeable expert at the environmental site visit to discuss the status of the 106 consultation process.
- CR-12. Provide a knowledgeable expert at the environmental site visit to provide a tour of the cultural resources within the APE.
- CR-13. Provide information on management around less-developed areas of the plant site, for instance, brush removal programs near known historic and archaeological resources or near unsurveyed areas.
- CR-14. Provide a copy of the transmission line vegetation management program plan, including timing of mowing, herbicide application, and clearing; inspections and

repair activities conducted by helicopters or other vehicles; standard operating procedures or guidelines for the Applicant and any contractors; technician training programs, and any regulations that restrict maintenance activities (e.g., looking for the depth of disturbance, especially with tree removal in a portion of the corridor). Of particular importance are vegetation management procedures for the site and associated transmission line(s) to avoid impacts to historic and archaeological resources.

- CR-15. Provide a copy of the Environmental Compliance Manual and any other environmental review procedures for land-disturbing activities (e.g., trenching, clearing, digging).
- CR-16. Provide maps of ownership and land use of the Applicant's property and associated transmission lines. Copies of historic plat maps would be useful, if available.

## **Alternatives**

Lead: PNNL

PNNL POC: Bruce McDowell, 509-375-6668, [bruce.mcdowell@pnl.gov](mailto:bruce.mcdowell@pnl.gov)

NRC POC: Allison Travers, 301-415-8395, [allison.travers@nrc.gov](mailto:allison.travers@nrc.gov)

No site audit needs at this time.

## **Socioeconomics/Environmental Justice/Land Use**

Lead: PNNL

PNNL POC: Katherine Cort, 509-372-4374, [katherine.cort@pnl.gov](mailto:katherine.cort@pnl.gov)

NRC POC: Jeff Rikhoff, 301-415-1090, [jeffrey.rikhoff@nrc.gov](mailto:jeffrey.rikhoff@nrc.gov)

### **Environmental Justice**

To help address the provisions of Section 4-4 "Subsistence Consumption of Fish and Wildlife" in Executive Order 12898, the following information is needed to assist the NRC in its environmental justice review:

- EJ-1. Information about any observed subsistence consumption behavior patterns—specifically fish and wildlife consumption—by minority and low-income populations in the vicinity of CGS. This subsistence consumption behavior could consist of hunting, fishing, and trapping of game animals and any other general food gathering activities (e.g., collecting nuts, berries, and other plant material) conducted by minority and low-income individuals in the vicinity of CGS.
- EJ-2. Information about current or past wildlife sampling and testing of game animals such as deer, squirrel, turkey, pheasant, duck, fish and other game birds and animals that may have been conducted in the vicinity of CGS. Wildlife sampling and testing may have been conducted before, during, and after plant construction and in the early days of plant operation, but was discontinued after determining that tissue samples consistently showed no significant or measurable radiological impact on the environment from plant operations.

### **Socioeconomics**

The following information is needed to assist the NRC in its socioeconomic impact review:

- SO-1. In addition to privilege tax payment information presented in Section 2.7 of the ER, please describe any other major annual support payments, one-time payments, and other significant forms of non-tax compensation (if any) provided to local organizations, communities, and jurisdictions (e.g., county, municipality, townships, villages, incorporated places, and school districts) on behalf of CGS.
- SO-2. Also, please provide information about any other recent or anticipated payment adjustments that could result in notable increases or decreases in tax or other payments.
- SO-3. Data on the height of the tallest (visible from offsite locations) structures at CGS and general information on the visibility of plant facilities from various offsite locations.
- SO-4. Information on noise impact analyses (if conducted) to offsite receptors or any noise emission studies on CGS.

## **Air Quality/Meteorology**

Lead: PNNL

PNNL POC: Jeremy Rishel, 509-375-6974, [jeremy.rishel@pnl.gov](mailto:jeremy.rishel@pnl.gov)

NRC POC: TBD

- MET-1. Provide hourly meteorological data from the onsite meteorological program for the most recent 5-year period, including the meteorological data used in the MACCS2/SAMA analysis.
  
- MET-2. Describe refurbishment activities, if any, which have the potential to affect regional air quality.

## **Non-radiological waste**

- NRW-1. Please provide a description of all non-radioactive (hazardous and non-hazardous) waste streams at CGS including types and quantities for the past 5 years (2005-2009).
- NRW-2. Please provide information on the status of CGS as a hazardous waste generator (as recognized by EPA). How much waste is generated per year for the past 5 years?
- NRW-3. Please provide hard copies of the bill of lading/disposal certificates of non-radioactive sludge waste as well as hard copies of the bill of lading/disposal certificates for LLW sludge disposal to NRC-permitted disposal facility for the past five years.
- NRW-4. Please provide hard copies of the Section 312 (TIER II) annual reports to EPA with a list of hazardous and toxic chemicals for past 3 years.
- NRW-5. What pollution prevention/waste minimization measures are incorporated by CGS? Please provide a copy of CGS pollution prevention plan/waste minimization plan/program, if available.
- NRW-6. Does CGS generate universal waste? If yes, provide list of waste and how these are handled and disposed/recycled for the past 5 years.
- NRW-7. Does CGS produce any medical wastes? If so, please specify quantity and how it is handled.
- NRW-8. Any Federal (e.g. EPA, Corps of Engineers) or State (e.g. Washington Department of Ecology; Washington Department of Health; Washington Energy Facility Site Evaluation Council (EFSEC)) RCRA or CERCLA-related clean-up, monitoring within or adjacent to CGS?