1. Call to Order
2. Roll Call
3. Proposed Agenda
4. Minutes
5. Projects
   a. Kittitas Valley Wind Project
   b. Wild Horse Wind Power Project
   c. Chehalis Generation Facility
   d. Desert Claim
   e. Grays Harbor Energy Center
   f. WNP – 1/4
   g. Columbia Generating Station
5. Other
   a. EFSEC Council
6. Adjourn
LACEY, WASHINGTON; SEPTEMBER 17, 2019
1:30 P.M.
--00o--

P R O C E E D I N G S

CHAIR DREW: Good afternoon. This is Kathleen Drew, Chair of the Energy Facility Site Evaluation Council. I'm calling this meeting to order.

Ms. Mastro, will you call the roll?

MS. MASTRO: Department of Commerce?

CHAIR DREW: Vacant.

MS. MASTRO: Department of Ecology?

MR. STEPHENSON: Cullen Stephenson, here.

MS. MASTRO: Department of Fish & Wildlife?

MR. LIVINGSTON: Mike Livingston, here.

MS. MASTRO: Department of Natural Resources?

Utilities and Transportation Commission?

MS. BREWSTER: Stacy Brewster, here.

MS. MASTRO: Chair, there is a quorum.

CHAIR DREW: Thank you.

Are there people who have joined us by phone who would like to introduce themselves?

Joan, do we know that we have an open connection there?

MS. AITKEN: I'm sorry?

CHAIR DREW: I'm not hearing anyone on the phone, I am wondering if the line is up.

MS. AITKEN: It is up. I can hear it through my phone. You guys can't hear it here?

CHAIR DREW: No.

MS. AITKEN: Okay.

MR. HENDERSON: I heard something super faintly.

CHAIR DREW: Yeah. We still don't have audio, so we will wait a couple minutes to see if we can get this fixed technically, since we do have a number of our reports via web link.

Are there people who have joined us via phone who would like to introduce themselves at this point?

MS. AITKEN: Working on it.

CHAIR DREW: We're going to take a five-minute break while we get this adjusted. Thank you.

(A break was taken from 1:33 p.m. to 1:39 p.m.)

CHAIR DREW: Calling us back to order now and asking -- let's hear from those who are on the phone.
### August 20th, 2019 Minutes

If not, all those in favor of approving the minutes, please say "aye." Oh, wait, maybe I need a motion first.

**Chair Drew:** I'll move to accept the minutes as presented.

**Ms. Brewster:** I'll second that.

**Chair Drew:** Thank you.

**All in favor, say "aye."**

**Councilmembers:** Aye.

**Chair Drew:** Thank you.

Opposed? Minutes are adopted.

Moving on to the project updates. Kittitas Valley Wind Project update, Mr. Melbardis.

**Mr. Melbardis:** Good afternoon, Chair Drew, EFSEC Council, and Staff. This is Eric Melbardis with EDP Renewables for the Kittitas Valley Wind Power Project. There was nothing nonroutine to report for the period operationally. We did conduct a site-wide rescue and heights training last week. We do that every couple of years with a refresher in between off years. Always good to get to work with our gear and get to climb up and repel out the side of the tower. Thought I would share that with the Council.

**Chair Drew:** Thank you.

**Any questions?**

---

### Valley

**Chair Drew:** And I think I also heard Mary Ramos?

**Ms. Ramos:** That's correct. Mary Ramos, Energy Northwest.

**Chair Drew:** Thank you.

So we had two --

**Mr. Melbardis:** Eric Melbardis --

**Chair Drew:** Go ahead.

**Mr. Melbardis:** Eric Melbardis, Kittitas Energy.

-- Golder Associates.

Sorry, Mary.

That's okay.

This is Dan Siemann with Washington DNR as the Councilmember.

**Ms. Warner:** -- Golder Associates.

**Chair Drew:** Thank you, Dan.

We had two --

**Mr. Melbardis:** Eric Melbardis --

**Chair Drew:** Go ahead.

**Mr. Melbardis:** Eric Melbardis, Kittitas Energy.

-- Golder Associates.

Sorry, Mary.

That's okay.

This is Dan Siemann with Washington DNR as the Councilmember.

**Ms. Warner:** -- Golder Associates.

**Chair Drew:** Thank you, Dan.

So we had two --

**Mr. Melbardis:** Eric Melbardis --

**Chair Drew:** Go ahead.

**Mr. Melbardis:** Eric Melbardis, Kittitas Energy.

With that, we have before us the proposed agenda. The one thing I'd like to share with the Council is that Sonia Bumpus is on leave today, so Ami Kidder will be actually speaking in the parts that are slated for Sonia Bumpus today.

With that change, is there a motion to approve the agenda?

**Mr. Stephenson:** I will move to approve the agenda.

**Chair Drew:** Thank you.

**Mr. Livingston:** I'll second that.

**Chair Drew:** All those in favor, please say "aye."

"aye."

**Councilmembers:** Aye.

**Chair Drew:** Opposed? Agenda is adopted.

The meeting minutes before us are August 20th, 2019. We had a subsequent version that was sent out, I believe, yesterday with one small correction. Are there any other corrections for the
And I do have an update on the Eagle Incidental Take Permit. The U.S. Fish and Wildlife Service published the Environmental Assessment and Eagle Conservation Plan on August 19th. It is available for public review and comment through the end of today. And it's available on the U.S. Fish and Wildlife Service migratory bird website. PSE provided that web link to the Technical Advisory Committee and informed them of the public review and comment period. And following the public review and comment period, the Service will make a determination on whether to issue an Eagle Incidental Take Permit for Wild Horse. And that's all I have.

CHAIR DREW: Thank you very much.

MS. RAMOS: Good afternoon, Chair Drew.

CHAIR DREW: Okay. We would really appreciate that. Thank you very much.

MR. SHERIN: Yes.

CHAIR DREW: Thank you.

MS. DIAZ: Okay. Thank you. And that's for Kyle --

CHAIR DREW: For Staff.

MS. DIAZ: Okay. Thank you. And that's for the -- the Spill Prevention Plan, correct?

MR. STEPHENSON: Yes. Thanks, Jennifer.


MR. STEPHENSON: Yeah, when we completed the initial review of the Spill Prevention Plan, it was largely similar to the previous plan with some updates for the solar storage capacity they added for the Solar Project. Contracted -- state -- state agency contractors also reviewed it, and there was no major issues.

MR. STEPHENSON: Thank you, Kyle.

CHAIR DREW: Anything else? Thank you.

Moving on to Chehalis Generation Facility.

MR. SMITH: Good afternoon, Chair Drew and Council and Staff. I'm Jeremy Smith. I'm the environmental analyst for Chehalis Generation. I have no abnormal reports for the month of August.

CHAIR DREW: Okay. Thank you.

MR. SHERIN: Good afternoon, Chair Drew and Councilmembers. I'm Chris Sherin, the plant manager at Grays Harbor Energy Center. The only nonroutine items I'll report on for the month of August are the beginning of August, Grays Harbor Energy Center scheduled an outage to clean our fuel gas strainers, which were showing signs of plugging off. We started observing high differential pressures in June and they continued to increase through August when we reached the point we were -- we were beginning to see low fuel gas pressures nearing the minimum fuel gas pressures required to operate our gas turbines.

The source of the fuel -- fuel quality issue is still uncertain. One abnormality that occurred this summer, which may have contributed to the situation, is our fuel gas trunk line. So our supply source is in null state, which means -- just means that just as much gas is flowing from southern direction as the northern direction and normally our gas flow is from the north.

Also during this period, there was also an identified dithiazine issue in the supply system from the gas sourced out of AECO or Nova Gas Trans -- let me make sure I say that right -- Nova Gas Transmission Limited's hub, which is in Alberta. And then I'm not going to read the remainder of the extract from the original email that I provided.

CHAIR DREW: Thank you.

MR. SHERIN: I'll just add also, I'll put out some information and a point of contact to TC Energy. And we've reached out to them, and they recommended that we send in further samples to a lab if that's ac-- what we actually have -- what -- that the dithiazine is our actual problem, because at this point, it's just still speculation.

CHAIR DREW: Okay. Thank you.

Are there questions about that? I know that Mr. Sherin also added an additional -- the noncritical notice from Nova Gas Transmission Limited in our packets that explains in more detail what those issues are. So is there anyone on the Council who has additional questions?

I take it that this is something that, as you get more information, you'll provide back to us?

MR. SHERIN: Yes.

CHAIR DREW: Okay. We would really appreciate that. Thank you very much.

Columbia Generating Station, Ms. Ramos?

MS. RAMOS: Good afternoon, Chair Drew and Councilmembers. This is Mary Ramos reporting for Energy Northwest. I have two updates to report for Columbia Generating Station for the month of August. First is regarding our fire reinspection.
<table>
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<th>Page 13</th>
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<td>1. So during the fire reinspection on June 24th, the Washington State Patrol Fire Marshal requested an inspection report from the contractors that performed coating of two water storage tanks at Columbia. On August 21st, Energy Northwest submitted the requested information. Based on discussions with the fire marshal and EFSEC Staff, Item 16 pertaining to water tank inspections on the fire inspection report will be closed. And then my second update is regarding our Radioactive Air Emissions License. On August 20th, Energy Northwest responded to EFSEC's request for additional information regarding our SEPA related to the Columbia Generating Station Radioactive Air Emissions License. And I have no updates to report for WNP-1/4. CHAIR DREW: Thank you. Ms. Moon, I understand you also have some information for us? MS. MOON: Yes. Thanks, Chair Drew. For the record, this is Amy Moon, one of the EFSEC Staff members, and wanted to give the Council an update on the National Pollutant Discharge Elimination System -- the acronym is NPDES -- Permit renewal at the Columbia Generating Station. EFSEC issued a letter on September 13th to administratively extend the current license, or anticipated, in November. And after that point, we can really work in earnest on the permit and the limits in the permit. But without that, we -- it would be premature to move forward. CHAIR DREW: Okay. MS. MOON: So I'm going to say after January. CHAIR DREW: Okay. Thank you very much. MS. MOON: You're welcome. CHAIR DREW: Any other questions? Okay. Desert Claim, you are up again, Ms. Moon. MS. MOON: Okay. So once again, this is Amy</td>
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<td>1. Moon, and I'm providing an update for the Desert Claim Project. EFSEC Staff continue to coordinate with Desert Claim; however, there are no updates on the project or project schedule at this time. CHAIR DREW: Okay. Thank you. Moving on to Columbia Solar Project. As you all saw and you know, we did have a motion from last meeting for the Chair to work with the Staff to submit an order regarding the suspension of the Columbia Solar Project. And you all received that as it was completed for updates. I'm going to ask Ms. Kidder to report. MS. KIDDER: Thank you, Chair Drew. For the record, my name is Ami Kidder. After the August 20th Council meeting, Staff and the AG's office worked to prepare Order 877, the order suspending site certification agreements for the Columbia Solar Project. Chair Drew has signed the order, and it became effective on September 5th. A copy of the order as well as the letter sent to the certificate holder is available in your packets. Are there any -- are there any questions about the letter or the order? CHAIR DREW: Okay. MS. KIDDER: Thank you. CHAIR DREW: Thank you. Now, we are on No. 5, &quot;Other&quot; on our agenda. And we have a revised...</td>
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<td>Page 14</td>
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<td>1. NPDES Permit, as the renewal permit will not be issued by the expiration date on October 31st, 2019. Per RCW 34.05.422(3) and WAC 463-76-061(4), the terms and conditions of the current permit remain in effect and enforceable until the effective date of a new permit. And EFSEC is in the process of working with the Department of Ecology to renew the permit for a new five-year period. CHAIR DREW: Thank you. Do you have any estimated time frames on that? MS. MOON: Well, we're -- we requested some additional information about groundwater, and that's due, or anticipated, in November. And after that point, we can really work in earnest on the permit and the limits in the permit. But without that, we -- it would be premature to move forward. CHAIR DREW: Okay. MS. MOON: So I'm going to say after January. CHAIR DREW: Okay. Thank you very much. MS. MOON: You're welcome. CHAIR DREW: Any other questions? Okay. Desert Claim, you are up again, Ms. Moon. MS. MOON: Okay. So once again, this is Amy</td>
<td>1. first quarter cost allocation. 2. Ms. Kidder. 3. MS. KIDDER: Thank you. Due to the suspension of the Columbia Solar Project, Staff has removed the project from the cost allocation for the remainder of first quarter of fiscal year 2020. The initial cost allocation presented remains effective for work completed from July 1st through September 4th. The updated cost allocations for September 5th through September 30th are as follows: 11. Kittitas Valley Wind Power Project, 11 percent; Wild Horse Wind Power Project, 11 percent; 12. Columbia Generating Station, 26 percent; WNP-1, 4 percent; Whistling Ridge Energy Project, 4 percent; 13. Grays Harbor 1 &amp; 2, 16 percent; Chehalis Generation Project, 14 percent; Desert Claim Wind Power Project, 10 percent; Grays Harbor Energy 3 &amp; 4, 4 percent. Are there any questions? 14. CHAIR DREW: Thank you. And final item on our agenda is the Air Rule update, Ms. Kidder. 15. MS. KIDDER: Thank you. If you all recall the revisions to EFSEC's Air Rule, Washington Administrative Code or WAC 463-78, which adopts Ecology air regulations by reference, went...</td>
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</table>
out for public comment from June 5th through July 20th. No public comments were received. As no comments were received, Chair Drew signed the form CR-103, which was filed with the Code Reviser's Office July 26th. This commenced a 30-day waiting period before the rule would become effective. That period has ended and as of August 26th, the updated WAC 463-78 is in effect, bringing EFSEC into alignment with current Ecology Air Rule. Are there any questions?

CHAIR DREW: Any questions?

Thank you.

As we have no other business before us, meeting is adjourned.

(Adjourned at 1:57 p.m.)

CERTIFICATE

STATE OF WASHINGTON
COUNTY OF THURSTON

I, Tayler Garlinghouse, a Certified Shorthand Reporter in and for the State of Washington, do hereby certify that the foregoing transcript is true and accurate to the best of my knowledge, skill and ability.

__________________________
Tayler Garlinghouse, CCR 3358
Kittitas Valley Wind Power Project
Monthly Operations Report

September 2019

Project Status Update

Production Summary:
Power generated: 21,482 MWh
Wind speed: 5.7m/s
Capacity Factor: 30.2%

Safety:
No incidents

Compliance:
Project is in compliance

Sound:
No complaints

Shadow Flicker:
No complaints

Environmental:
No incidents
Safety
No lost-time accidents or safety injuries/illnesses

Compliance/Environmental
Nothing to report

Operations/Maintenance
Nothing to report

Wind Production
September generation totaled 56,076 MWh for an average capacity factor of 28.57%

Eagle Update
Nothing to report
Safety:

- There were no recordable incidents this reporting period and the plant staff has achieved 1523 days without a Lost Time Accident.

Environment:

- There were no air emissions or stormwater deviations or spills during the month.
- Wastewater and Storm-water monitoring results complied with the permit limits for the month.

Operations and Maintenance Activities:

- The Plant generated 260,560 MW-hours in September for 2019 Year-To-Date generation equaling 1,626,239 MW-hours. The capacity factor for the month of August was 67.3% and the YTD is 50.8%.

Regulatory/Compliance:

- The US-EPA Region 10, Pretreatment/Biosolids Coordinator, conducted an inspection of the Chehalis plant during the month. EFSEC staff also accompanied the EPA during the inspection. The Chehalis staff provided documentation regarding consumption and discharges from the plant to the Publicly Owned Treatment Works (City of Chehalis) and an inspection report is expected in the coming weeks.

Sound monitoring:

- Nothing to report this period.

Carbon Offset Mitigation:

- Nothing to report this period.
Respectfully,

Mark A. Miller
Manager, Gas Plant
Chehalis Generation Facility
EFSEC Monthly Operational Report  
Grays Harbor Energy Center  

September 2019

Safety and Training

- There were no accidents or injuries during the month and the plant staff has achieved 3924 days without a lost time incident.

Environmental & Compliance

- There were no air emissions, outfall or storm water deviations, during the month.
- All routine reporting was completed for the month.
- The August 14 & 15th GHEC Relative Accuracy Test Audit results were submitted on it to EFSEC on September 26th.
- The annual inspection by the State Fire Marshal’s Office was scheduled for October 8th.
- GHEC received the draft of the Title V Air Operating Permit for review. GHEC comments and questions were submitted to EFSEC staff on September 26th.

Operations & Maintenance

- Grays Harbor Energy Center (GHEC) operated 30 days during the month, with 1 starts on U1, and 0 start on U2.
- GHEC generated 404,584MWh during the month and 2,404,117MWh YTD.
- The plant capacity factor was 90.6% for the month and 59.2% YTD.
- Plant fuel gas lines
- GHEC is still investigating the fuel gas fouling issue. Currently there is no impact to generation, however we believe it will be a long-term maintenance issue which we plan to address during scheduled outage periods. During the last week of September, GHEC collected another sample of the black tar like substance that previously plugged of our Fuel Gas Inlet Strainer, suspected to be dithiazine, and sent to the lab recommended by TC Energy.

Noise and/or Odor

- None.

Site Visits

- None.

Other

- None.
Washington Nuclear Project 1 and 4 (WNP-1/4)
No updates to report.

Columbia Generating Station (CGS)

Oil and Hazardous Substances Spill Prevention, Control, and Counter-Measure Plan Revision
On September 27, 2019, Energy Northwest issued a revision to the Columbia Generating Station Oil and Hazardous Substances Spill Prevention, Control, and Counter-Measure Plan. The revision incorporates changes requested by EFSEC and requirements outlined under Conditions S3.E and S9.B.2 of NPDES Permit WA002515-1.

EFSEC Order No. 873 Annual Report
In accordance with annual reporting requirements in the EFSEC Order No. 873, Energy Northwest submitted monthly run times for the Columbia Generating Station emergency power diesel generators and monthly fuel consumption for the CGS auxiliary boiler. The report, which was submitted to EFSEC on September 26, 2019, covers the period from September 2018 through August 2019 and includes 12-month rolling totals.

Fire inspection update
On September 19, 2019, Energy Northwest submitted to the WSP Fire Marshal and EFSEC additional information regarding range hood ventilation (item 12 on the fire inspection report).
Energy Northwest

A not-for-profit Municipal Corporation

Asotin County PUD  |  Benton County PUD  |  Chelan County PUD  |  Mountain County PUD  |  Seattle City Light
Clark Public Utilities  |  Ferry County PUD  |  Franklin County PUD  |  Mason County PUD  |  Skamania County PUD
Klickitat County PUD  |  Lewis County PUD  |  Mason County PUD  |  Snohomish County PUD  |  Tacoma Public Utilities
Mason County PUD  |  Okanogan County PUD  |  Pacific County PUD  |  Wahkiakum County PUD  |  Whatcom County PUD
City of Port Angeles  |  Grays Harbor County PUD  |  Jefferson County PUD  |  Kittitas County PUD  |
Generation Projects

White Bluffs Solar Station (38 KWe)

Nine Canyon Wind Project (96 MWe)

Tieton Hydroelectric Project (15 MWe)

Packwood Lake Hydroelectric Project (27 MWe)

Portland Hydroelectric Project (37.5 MWe)

Columbia Generating Station (1,207 MWe)
Columbia Generating Station

Bonneville Power Administration
Administrator Peter Johnson (left)
& Plant Manager Jerry Martin
dedication

1984
Columbia Generating Station

- GE Boiling Water Reactor
- 10 miles north of Richland
- Online: 1984
- License renewed: 2012
- Licensed through: 2043
- Output: 1,207 MWe
- Capacity factor: 92%
9,708,444
Megawatt-hours in 2018

9.6 million
In 2016

9.5 million
In 2014

8.4 million
In 2014
(refueling year record)

9.3 million
In 2012

9.3 million
In 2012

Columbia Generating Station - Simplified

- Primary Loop – Irradiated
- Circulating Water Loop – Not Irradiated Loop
The Fuel

Fuel Pellet

Fuel Rod

Sub-Assembly
(1 of 4 per fuel assembly)

Channel

Nose Piece

Handle

Typical Fuel Assembly
Reactor Vessel

Dimensions (approx.)
75 feet tall
28 feet in diameter
9-inch thick steel walls
Primary & Secondary Containment
Used Nuclear Fuel

• Commercial used fuel is stored in water-filled pools and above ground dry storage casks
• Vastly different than Hanford’s nuclear waste
Comparison of Life-Cycle Emissions
Tons of carbon dioxide equivalent per gigawatt-hour

Source: Intergovernmental Panel on Climate Change
# Environmental Permits

<table>
<thead>
<tr>
<th>Agency</th>
<th>Document Number</th>
<th>Issue Date</th>
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<tr>
<td>EFSEC</td>
<td>N/A</td>
<td>Issued: 5/17/1972</td>
<td>Construction and operation of CGS</td>
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<td>Resolution 288</td>
<td>Issued: 11/10/1997</td>
<td>Operation of inert waste landfill</td>
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<td></td>
<td>Resolution 299</td>
<td>Issued: 8/3/2001</td>
<td>Onsite disposal of cooling system sediment</td>
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<td></td>
<td>Resolution 300</td>
<td>Issued: 9/10/2001</td>
<td>Operation of sanitary waste treatment facility</td>
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<td>Order 837</td>
<td>Issued: 2/11/2009</td>
<td>Air emissions from painting and blasting</td>
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<td>Order 873</td>
<td>Issued: 10/08/2014</td>
<td>Air emissions from diesel-fired combustion units providing steam and emergency power</td>
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<td>Order 874</td>
<td>Issued: 1/21/2015</td>
<td>Radionuclide emissions from evaporation ponds</td>
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<td></td>
<td>Permit WA002515-1</td>
<td>Modified: 2/08/2016</td>
<td>Industrial wastewater discharge permit (National Pollutant Discharge Elimination System, NPDES)</td>
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<tr>
<td>U.S. Army Corps of Engineers</td>
<td>Permit 071-OYC-1-000221-75-9</td>
<td>Issued: 3/14/1975</td>
<td>Construction and maintenance of river intake and discharge structures</td>
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<tr>
<td>Washington Department of Natural Resources</td>
<td>Easement 51-076659</td>
<td>Issued: 4/02/2005</td>
<td>Use of aquatic lands (riverbed and shoreline) for construction of in-river structures</td>
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# Environmental Permits

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<tr>
<td></td>
<td>Certificate G3-20142C</td>
<td>Issued: 5/02/1979</td>
<td>Withdrawal and consumption of groundwater</td>
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<td>Permit G1018</td>
<td>Annual permit</td>
<td>Use of commercial low level radwaste disposal facility</td>
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<tr>
<td>Washington Department of Ecology (through Dept of Licensing)</td>
<td>Registration 034 003 333</td>
<td>Annual registration</td>
<td>Operation of underground storage tanks</td>
</tr>
<tr>
<td>Washington Department of Health</td>
<td>Permit 920240</td>
<td>Annual registration</td>
<td>Operation of public water system</td>
</tr>
<tr>
<td>U.S. NRC and National Marine Fisheries Service</td>
<td>License to Operate NPF-21</td>
<td>Issued: 3/10/2017</td>
<td>Final Biological Opinion and Incidental Take Statement</td>
</tr>
</tbody>
</table>
Emergency Preparedness

Protect public health & safety

- Preventing emergency events
- Identify, classify, mitigate events
- Notify offsite response organizations
- Recommend protective actions when needed
Emergency Preparedness

Emergency Response Organization (ERO)

• 1000 + employees
• 4 teams and alternate
• 5 primary emergency centers
  • Alternate emergency facilities
• Each ERO team drills at least annually
• Evaluated exercises conducted biennially
• Offsite response organization partners
Connect with us ... stay informed

[Social media icons: Facebook, Twitter, YouTube]
Kelly Rae
Energy Northwest Public Affairs
klrae@energy-northwest.com
Washington State

Energy Facility Site Evaluation Council

Richland, WA

October 15, 2019

These Slides Are Intended for Illustrative Purposes Only and Do Not Represent the Official Position of EFSEC on Any Individual Project
History

- EFSEC formed in 1970 for thermal power plants
- “One stop permitting”
- State agency and local government members
- EFSEC recommendation to Governor for final decision
- Final decision preempts all other state and local governments
Council Membership (RCW 80.50.30)

- Chair – Governor Appointee
  - Kathleen Drew
- Dept. of Ecology
  - Cullen Stephenson
- Dept. of Fish & Wildlife
  - Mike Livingston
- Dept. of Commerce
  - TBD
- Dept. of Natural Resources
  - Dan Siemann
- Utilities & Transportation Commission
  - Stacey Brewster
- Local Government (City and County)
  - for application review
- Port District – nonvoting
  - for application review
- Optional application review members:
  - Dept. of Agriculture
  - Dept. of Health
  - Dept. of Transportation
  - Military Dept.
Facilities

- Energy plants:
  - Any nuclear power facility where the primary purpose is to produce and sell electricity
  - Alternative energy resources (wind, solar, geothermal, wave/tidal, landfill gas, biomass, etc.) “any size may opt-in”
  - Non hydro, nonnuclear thermal power plants 350+ MW
- Transmission Lines 115+ kV may “opt-in”
- Pipelines
- Refineries and Storage Facilities
Columbia Generating Station Certification

- Application – January 1971
- Site Certification Agreement – May 1972
- Site Certification Amendment – September 1975
- Facility Online - 1984
Regulatory Oversight

- Compliance monitoring and enforcement
  - EFSEC monitors approved projects for compliance with the Site Certification Agreement and Permits through contracts with State and local agencies

- Permits
  - NPDES
  - Air Emissions
  - Fugitive Radionuclides

- Coordination with NRC and other Federal agencies occurs as needed
Regulatory Oversight and Coordination

- Dept. of Ecology
- Dept. of Health
- Office of the State Fire Marshall Washington State Patrol
- Department of Natural Resources
- Military Dept., Emergency Management Division
Columbia Generating Station (CGS)

Offsite Emergency Preparedness in Washington State

October 15, 2019
History

- 3-Mile Island - 1979
- Executive Order 12148
  - Transferred lead Fed role for Offsite EP to FEMA
- NRC and FEMA Joint publication
  - NUREG-0654/FEMA-REP-1
- FEMA publication for offsites
  - REP Program Manual (RPM)
- REP has evolved since 1983
  - Hostile Action Based scenarios
  - Back up Alert & Notification System
REP Program in Washington

- Participating Organizations
- State
  - Emergency Management Division
  - Department of Health
  - Department of Agriculture
- Counties
  - Adams
  - Benton
  - Franklin
  - Grant
  - Walla Walla
  - Yakima
REP Program in Washington

- Klickitat and Kittitas – non-participating
- Goal – Protect the health and safety of the public
  - Follow requirements of RPM
  - Requirements for all
    - Planning
    - Training
    - Exercising
- County requirements vary based on EPZ
  - 10-mile – Benton, Franklin
  - 50-mile – Adams, Benton, Franklin, Grant, Walla Walla, Yakima.
REP Program in Washington

- **Planning**
  - Required to develop plans, procedures, MOU/MOAs
  - Must be coordinated with counties/state agencies
  - EMD provides courtesy review
  - FEMA reviews/approves as adequate to meet REP program standards

- **Training**
  - Required to conduct initial and annual refresher
  - Training requirement for those responsible for planning effort.
REP Program in Washington

• Exercises and Drills
  • Exercises
    • 8-year exercise cycle
    • All exercise criterion must be demonstrated at least once within the cycle. Most are demonstrated every 2 years.
    • Federally evaluated every 2 years
    • FEMA reviews/approves as adequate to meet REP program goals
  • Drills
    • Medical Services Drill
    • Emergency Worker/Assistance Center Drill
    • State Lab Drill
REP Program in Washington

• Financial Support
  • Interlocal Agreements with EFSEC
    • EMD has agreement with EFSEC
    • EMD has sub-contracts with Counties
    • DOH and WSDA have separate agreements
  • Work is based on requirements in RPM
    • Includes some administrative and program management requirements

• Benefits of REP
  • Positive impacts to communities
    • Relationships established
    • Coordinated planning
    • Trained together
    • Exercised together
REP Program in Washington

- Overall, REP Communities are better prepared
- Energy Northwest has been a good neighbor
Questions?

Steven Williams,
Radiological Preparedness Program Manager
O: 509-545-2030
M: 509-531-3911
steven.williams@mil.wa.gov
COLUMBIA GENERATING STATION
COMPLIANCE AUDITING PROGRAM

Office of Radiation Protection/Environmental Health Programs
Hanford Groundwater Contaminant Plumes

Source: DOE/RL-2016-67
CGS COMPLIANCE AUDITING ROLES

- Radioactive Air Emissions Regulatory Program
- Radiological Monitoring Program
- Emergency Plans and Procedures/Operating Document Review
### Rules

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<td>WAC 246-247, WAC 173-480 (Order 874)</td>
<td>Radionuclides in Air (Evaporation Pond)</td>
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Radioactive Air Emissions Program

- Radioactive Air Licensing
- Review Emissions Data
- Inspections, Surveillances
Ambient Standard vs. MEI

- **AMBIENT STANDARD**: Emissions of radionuclides in the air shall not cause a maximum effective dose equivalent of more than 10 mrem/year to the whole body of any member of the public (does not designate where a person lives).

- **MEI** – Maximally Exposed Individual: A hypothetical individual who, because of proximity, activity, or living habit, could receive the maximum possible dose of radiation.

- **ALARA** (As Low as Reasonably Achievable)
Radiological Monitoring Program

- Quality Assurance Assessment of CGS REMP Program
- Conduct Environmental Sampling and Investigations
- Provide Laboratory Support
Media Sampled

Air
  Particulate
  Iodine

Water
  Drinking
  Surface
  Discharge

Milk

Soil/Sediment

Food

Fish

Vegetation

Ambient Gamma
Emergency Preparedness Program

- Review CGS Emergency Plans, Emergency Action Levels
- Participate in Drill/Exercise Critiques
- Review Operating License Amendment Requests, Inspections, Document Updates
Collectively these programs support the safe and lawful operations of Columbia Generating Station.

The State’s independent audit role allows us to assess public and environmental health and confidently communicate our findings to the public, local health jurisdictions, agriculture, or interested persons from some distance away.
Questions?

Lynn Albin
lynn.albin@doh.wa.gov
360-236-3252
Washington State Department of Health is committed to providing customers with forms and publications in appropriate alternate formats. Requests can be made by calling 800-525-0127 or by email at civil.rights@doh.wa.gov. TTY users dial 711.
Energy Facility Site Evaluation Council

Non Direct Cost Allocation
for
2nd Quarter FY 2020

October 1, 2019 – December 30, 2019

The EFSEC Cost Allocation Plan (Plan) was approved by the Energy Facility Site Evaluation Council in September 2004. The Plan directed review of the past quarter’s percentage of EFSEC technical staff’s average FTE’s, charged to EFSEC projects. This along with anticipated work for the quarter is used as the basis for determining the non-direct cost percentage charge, for each EFSEC project.

Using the procedures for developing cost allocation, and allowance for new projects, the following percentages shall be used to allocate EFSEC’s non direct costs for the 1st quarter of FY 2020:

- Kittitas Valley Wind Power Project 11%
- Wild Horse Wind Power Project 11%
- Columbia Generating Station 24%
- WNP-1 4%
- Whistling Ridge Energy Project 4%
- Grays Harbor 1&2 17%
- Chehalis Generation Project 15%
- Desert Claim Wind Power Project 10%
- Grays Harbor Energy 3&4 4%

Sonia E. Bumpus, EFSEC Manager

Date: 10/8/2019