



Washington State Energy Facility Site Evaluation Council

AGENDA

MONTHLY MEETING
Tuesday July 16, 2019
1:30 PM

621 Woodland Square Loop SE,
Lacey, WA 98503,
Conference Room 110
Conference number: (360) 407-3810 ID: 214817

- 1. Call to Order Kathleen Drew, EFSEC Chair
- 2. Roll Call Tammy Mastro, EFSEC Staff
- 3. Proposed Agenda Kathleen Drew, EFSEC Chair
- 4. Minutes **Meeting Minutes**..... Kathleen Drew, EFSEC Chair
 - June 18, 2019
- 5. Projects
 - a. **Kittitas Valley Wind Project**
 - Operational Updates..... Eric Melbardis, EDP Renewables
 - b. **Wild Horse Wind Power Project**
 - Operational Updates..... Jennifer Diaz, Puget Sound Energy
 - c. **Chehalis Generation Facility**
 - Operational Updates..... Mark Miller, Chehalis Generation
 - d. **Grays Harbor Energy Center**
 - Operational Updates..... Chris Sherin, Grays Harbor Energy
 - e. **Columbia Generating Station**
 - Operational Updates..... Mary Ramos, Energy Northwest
 - f. **WNP – 1/4**
 - Non-Operational Updates..... Mary Ramos, Energy Northwest
 - g. **Columbia Solar Project**
 - Project Updates..... Ami Kidder, EFSEC Staff
 - h. **Desert Claim**
 - Project Updates..... Ami Kidder, EFSEC Staff
- 6. Other
 - a. **EFSEC Council**
 - Air Rule Update..... Ami Kidder, EFSEC Staff
 - 1st Quarter Cost Allocation..... Sonia Bumpus, EFSEC Staff
- 7. Adjourn..... Kathleen Drew, EFSEC Chair

Note: "FINAL ACTION" means a collective positive or negative decision, or an actual vote by a majority of the members of a governing body when sitting as a body or entity, upon a motion, proposal, resolution, order, or ordinance. RCW 42.30.020

Verbatim Transcript of Monthly Council Meeting
Washington State Energy Facility Site Evaluation
Council

June 18, 2019



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Page 1	Page 3
1	1 OLYMPIA, WASHINGTON; JUNE 18, 2019
2	2 1:30 P.M.
3	3 --o0o--
4	4 P R O C E E D I N G S
5	5
6	6 CHAIR DREW: Good afternoon. This is
7	7 Kathleen chair -- Kathleen Drew, Chair of the Energy
8	8 Facility Site Evaluation Council. I am calling our
9	9 monthly meeting to order.
10	10 Ms. Mastro, will you call the roll?
11	11 MS. MASTRO: Department of Ecology?
12	12 MR. STEPHENSON: Cullen Stephenson, here.
13	13 MS. MASTRO: Department of Fish and
14	14 Wildlife?
15	15 MR. LIVINGSTON: Mike Livingston, on the
16	16 phone.
17	17 MS. MASTRO: Department of Natural
18	18 Resources?
19	19 MR. SIEMANN: Dan Siemann, here.
20	20 MS. MASTRO: Utilities and Transportation
21	21 Commission?
22	22 MS. BREWSTER: Stacey Brewster, here.
23	23 MS. MASTRO: Chair, there is a quorum for
24	24 the EFSEC Council.
25	25 CHAIR DREW: Thank you.
Page 2	Page 4
1	1 Is there anyone else who has connected via
2	2 the Skype line who would like to introduce themselves at
3	3 this point?
4	4 MS. WARNER: Hi everyone. This is Kara
5	5 Warner with Golder Associates.
6	6 MS. DIAZ: This is Jennifer Diaz, Puget
7	7 Sound Energy Wild Horse Wind Facility.
8	8 MR. LICHTENBERG: And Scott Lichtenberg,
9	9 plant manager at Wild Horse Wind Facility.
10	10 CHAIR DREW: Thank you.
11	11 MS. RAMOS: Mary Ramos, Energy Northwest.
12	12 CHAIR DREW: Okay. Thank you all very much.
13	13 The proposed agenda is in front of you. Is there a
14	14 motion to approve the agenda?
15	15 MR. STEPHENSON: I will move to approve the
16	16 agenda.
17	17 MR. SIEMANN: I will move to second it.
18	18 CHAIR DREW: All those in favor, say "aye."
19	19 COUNCILMEMBERS: Aye.
20	20 CHAIR DREW: Opposed? Agenda is adopted.
21	21 The meeting minutes from May 21st are in
22	22 your packets. Is there a motion to approve the meeting
23	23 minutes from the May 21st meeting?
24	24 MR. STEPHENSON: I will move to approve the
25	25 minutes.
1	1 A P P E A R A N C E S
2	2 Councilmembers:
3	3 KATHLEEN DREW, Chair
4	4 CULLEN STEPHENSON, Department of Ecology
5	5 STACEY BREWSTER, Utilities & Transportation Commission
6	6 MIKE LIVINGSTON, Fish and Wildlife (phone)
7	7 DAN SIEMANN, Department of Natural Resources
8	8 Assistant Attorney General:
9	9 JON THOMPSON
10	10 Council Staff:
11	11 SONIA BUMPUS
12	12 AMI KIDDER
13	13 AMY MOON
14	14 TAMMY MASTRO
15	15 JOAN AITKEN
16	16 CHRISTINA POTIS
17	17 STEW HENDERSON
18	18 In Attendance:
19	19 ERIC MELBARDIS, EDP Renewables (phone)
20	20 JENNIFER DIAZ, Wild Horse (phone)
21	21 SCOTT LICHTENBERG, Wild Horse (phone)
22	22 CHRIS SHERIN, Grays Harbor Energy
23	23 MARY RAMOS, Energy Northwest (phone)
24	24 JEREMY SMITH, Chehalis Generation
25	25 KARA WARNER, Golder Associates (phone)
19	19 * * * * *

Page 5	<p>1 MS. BREWSTER: I'll move to second.</p> <p>2 CHAIR DREW: Any comments or corrections?</p> <p>3 All those in favor, please say "aye" of approving the</p> <p>4 minutes.</p> <p>5 COUNCILMEMBERS: Aye.</p> <p>6 CHAIR DREW: Opposed? Minutes are approved.</p> <p>7 Moving on to our reports from the projects.</p> <p>8 The first is Kittitas Valley Wind Project.</p> <p>9 MR. MELBARDIS: Good afternoon, Chair Drew,</p> <p>10 EFSEC Council, and Staff. This is Eric Melbardis with</p> <p>11 EDP Renewables for the Kittitas Valley Wind Power</p> <p>12 Project. There was nothing nonroutine to report last</p> <p>13 month. We do, however, this month have had fairly great</p> <p>14 winds. Our capacity factor has been around 70 percent.</p> <p>15 CHAIR DREW: Wow. Thank you.</p> <p>16 Wild Horse Wind Facility?</p> <p>17 MS. DIAZ: Yes, thank you, Chair Drew and</p> <p>18 Councilmembers. For the record, this is Jennifer Diaz</p> <p>19 with Puget Sound Energy at the Wild Horse Wind Facility.</p> <p>20 I have a few updates for the month of May. We have</p> <p>21 scheduled our next Technical Advisory Committee meeting</p> <p>22 for Wednesday, July 24th.</p> <p>23 And then Wild Horse reached 8 million</p> <p>24 megawatt hours on May 24th. So that was a great</p> <p>25 milestone for us.</p>	Page 7	<p>1 appreciate having that information and that detail, so</p> <p>2 thank you very much for that.</p> <p>3 Are there any questions?</p> <p>4 Thank you, no questions.</p> <p>5 MS. DIAZ: Thank you.</p> <p>6 CHAIR DREW: Chehalis Generation Facility?</p> <p>7 Good afternoon.</p> <p>8 MR. SMITH: Good afternoon, Chair Drew and</p> <p>9 Council. My name is Jeremy Smith. I'm the</p> <p>10 environmental analyst for Chehalis Power. We have no</p> <p>11 abnormal issues to report for the month of May. Are</p> <p>12 there any questions?</p> <p>13 CHAIR DREW: Are there any questions? No.</p> <p>14 We -- we look forward to planning our site</p> <p>15 tour to your facility as well.</p> <p>16 MR. SMITH: Yes, I believe we just confirmed</p> <p>17 that, so thank you.</p> <p>18 CHAIR DREW: Okay, great. Thank you.</p> <p>19 Columbia Generating Station, Ms. Ramos?</p> <p>20 MS. RAMOS: Good afternoon, Chair Drew and</p> <p>21 Councilmembers as well as EFSEC Staff. This is Mary</p> <p>22 Ramos reporting for Energy Northwest. I have two</p> <p>23 updates for you regarding Columbia Generating Station.</p> <p>24 First is Columbia Generating Station is near</p> <p>25 the conclusion of its 24th refueling and maintenance</p>
Page 6	<p>1 CHAIR DREW: Yes.</p> <p>2 MS. DIAZ: EFSEC Council Staff and Chair</p> <p>3 Drew toured Wild Horse on May 22nd, and on May 21st, an</p> <p>4 emergency response and rescue drill was conducted to</p> <p>5 test our emergency response procedures and</p> <p>6 communications with the local and regional emergency</p> <p>7 responders. Puget Sound Energy, Vestas, Kittitas Valley</p> <p>8 Fire & Rescue, Airlift Northwest Helicopter, LifeFlight</p> <p>9 Helicopter, and KITTCOM, the emergency 911 dispatch, all</p> <p>10 participated, and the drill was very successful and</p> <p>11 lessons learned from that drill will be used to improve</p> <p>12 our emergency response procedures.</p> <p>13 Just a little more detail about the drill.</p> <p>14 This was not a surprise drill. We have conducted those</p> <p>15 in the past, but this one we wanted to involve --</p> <p>16 involve both the helicopter companies. So it was a</p> <p>17 planned out drill, and it included a scenario with a</p> <p>18 victim up tower with crushed legs, bleeding up in the</p> <p>19 tower and -- excuse me, and -- and included trauma</p> <p>20 heights and rope rescue training as well. So it was</p> <p>21 very successful, and I believe in your packets were</p> <p>22 included some photographs from that emergency response</p> <p>23 drill.</p> <p>24 CHAIR DREW: Yes, photographs as well as a</p> <p>25 very informative positives and lessons learned. Really</p>	Page 8	<p>1 outage just in time to meet higher electricity demands</p> <p>2 as summer temperatures rise. During the last several</p> <p>3 weeks, Energy Northwest employees and approximately 1200</p> <p>4 temporary workers completed thousands of individual</p> <p>5 maintenance improvements and upgrades. The station</p> <p>6 replaced 260 of 764 nuclear fleet fuel assemblies in</p> <p>7 Columbia's reactor core as well as installed a</p> <p>8 30-foot -- 34-foot 133-ton refurbished form pressure</p> <p>9 turbine rotor. At this point, Columbia Generating</p> <p>10 Station is in mount two, which is plant startup.</p> <p>11 Today's activities include raising reactor power in</p> <p>12 preparation to reconnect to the grid tomorrow.</p> <p>13 And then my second update is regarding our</p> <p>14 NPDES Permit submittal. On May 28, Energy Northwest</p> <p>15 submitted as-built drawings for the Dehalogenation</p> <p>16 Chemical Feed Project at Columbia. The drawings were</p> <p>17 submitted to fulfill the plans and specifications</p> <p>18 requirements of Washington Administrative Code. Are</p> <p>19 there any questions?</p> <p>20 CHAIR DREW: Thank you.</p> <p>21 Are there any questions?</p> <p>22 We also look forward to visiting your</p> <p>23 facility this October. Thank you.</p> <p>24 MS. RAMOS: Yes, thank you. We look forward</p> <p>25 to that.</p>

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<p>1 CHAIR DREW: And I do see where WNP-1/4 also</p> <p>2 has no updates to report, so we'll move on then --</p> <p>3 MS. RAMOS: That's correct, thank you.</p> <p>4 CHAIR DREW: Yes.</p> <p>5 The Columbia Solar Project update,</p> <p>6 Ms. Kidder?</p> <p>7 MS. KIDDER: Thank you, Chair Drew. For the</p> <p>8 record, my name is Ami Kidder. Staff are continuing</p> <p>9 coordination with the certificate holder, but I have no</p> <p>10 further updates at this time.</p> <p>11 CHAIR DREW: Okay. Thank you.</p> <p>12 And for Desert Claim, Ms. Moon?</p> <p>13 MS. MOON: Good afternoon, Chair Drew and</p> <p>14 Councilmembers. For the record, this is Amy Moon and I</p> <p>15 am providing the update for Desert Claim. EFSEC Staff</p> <p>16 received and is reviewing the Cultural Resources</p> <p>17 Monitoring and Mitigation Plan. Submittal of this plan</p> <p>18 was a requirement of the Site Certification Agreement.</p> <p>19 Do you have any questions?</p> <p>20 CHAIR DREW: Any questions? Nope.</p> <p>21 Thank you for the update.</p> <p>22 Grays Harbor Energy Center? Thank you,</p> <p>23 Mr. Sherin, for the tour this morning. Very</p> <p>24 informative. We all learned a good deal, and as we were</p> <p>25 happy for good weather on the East Side, we were very</p>	<p>1 manufacturers' maintenance recommendations for a</p> <p>2 continuous flow monitor.</p> <p>3 An edit was made in coordination with our</p> <p>4 Ecology permit contractor to permit condition S2.D.3 to</p> <p>5 request that the equipment is calibrated annually. A</p> <p>6 copy of the revised permit and fact sheet are included</p> <p>7 in your Council packets, and a summary of this activity</p> <p>8 can be reviewed in Appendix G of the fact sheet. Are</p> <p>9 there any comments or any questions so far?</p> <p>10 CHAIR DREW: Any comments or questions?</p> <p>11 Okay. Thank you.</p> <p>12 MS. KIDDER: Staff would like to request</p> <p>13 that the Council take action to approve the Grays Harbor</p> <p>14 Energy Center NPDES Permit as revised for public</p> <p>15 comment, but should the Council approve the permit, it</p> <p>16 would become effective July 1st, 2019.</p> <p>17 CHAIR DREW: Okay.</p> <p>18 MR. STEPHENSON: I will move that we approve</p> <p>19 the Grays Harbor Energy Center National Pollutant</p> <p>20 Discharge Elimination System Permit as amended.</p> <p>21 MR. SIEMANN: I'll second that.</p> <p>22 CHAIR DREW: Any comments?</p> <p>23 Thank you for the good work for everybody</p> <p>24 involved with that, also to the Department of Ecology,</p> <p>25 our partners in reviewing the permit to the facility,</p>
Page 10	Page 12
<p>1 happy for some cloud cover here so it would be a little</p> <p>2 cool.</p> <p>3 MR. SHERIN: You're welcome. Glad I can</p> <p>4 arrange the weather appropriately.</p> <p>5 Thanks again, Chair Drew, Councilmembers,</p> <p>6 and Staff. Chris Sherin, plant manager at Grays Harbor</p> <p>7 Energy Center. I don't have any nonroutine items to</p> <p>8 report for the month of May other than just note that we</p> <p>9 did conduct a portion of our annual outage -- annual</p> <p>10 maintenance outage May 13th through 31st and didn't have</p> <p>11 any environmental incidents or safety mishaps during</p> <p>12 that outage period so consider it successful.</p> <p>13 CHAIR DREW: Thank you.</p> <p>14 MR. SHERIN: Any questions?</p> <p>15 CHAIR DREW: Any questions?</p> <p>16 Thank you again.</p> <p>17 For the NPDES Permit, Ms. Kidder?</p> <p>18 MS. KIDDER: Thank you. As you remember,</p> <p>19 the Council voted to approve for public comment the</p> <p>20 Grays Harbor National Pollutant Discharge Elimination</p> <p>21 renewal permit. The public comment period was open from</p> <p>22 April 22nd through May 21st. During this time, EFSEC</p> <p>23 Staff received one comment, which was from the facility</p> <p>24 indicating a clarification to the text that would align</p> <p>25 the permit requirements with the equipment</p>	<p>1 Mr. Sherin, and our Staff.</p> <p>2 All those in favor, signify by saying "aye"</p> <p>3 to approve the permit.</p> <p>4 COUNCILMEMBERS: Aye.</p> <p>5 CHAIR DREW: All those opposed? Permit is</p> <p>6 approved.</p> <p>7 MS. KIDDER: Thank you.</p> <p>8 In further news, I would just like to notify</p> <p>9 the Council of some activity planned for the coming</p> <p>10 months, which has been alluded to a little bit earlier</p> <p>11 in the Council meeting. We tentatively planned for the</p> <p>12 Chehalis Generation Facility to host a site tour for the</p> <p>13 Council on the morning of August 20th prior to the</p> <p>14 Council meeting that day, which will be held at our new</p> <p>15 offices in Lacey. More details of this facility tour</p> <p>16 will be made available to the Council as we coordinate</p> <p>17 with the facility.</p> <p>18 Additionally, we're also coordinating with</p> <p>19 the Columbia Generating Station to host a facility tour</p> <p>20 on Wednesday, October 16th. We would tentatively plan</p> <p>21 for the October Council meeting the day prior, October</p> <p>22 15th, to be held in Richland, at which time we are</p> <p>23 hoping to have some presentation from the facility as</p> <p>24 well as some of our contractors who coordinate with</p> <p>25 EFSEC Staff with work related to operations and</p>

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1 emergency preparedness at the Columbia Generating
 2 Station. Are there any questions?
 3 CHAIR DREW: So please note those on our --
 4 your calendars for additional time and travel. For the
 5 Chehalis site, I'd think we'd just start out here the
 6 same as we did today for the Grays Harbor Energy Center
 7 tour.
 8 MS. KIDDER: That's correct. The Chehalis
 9 facility is a short drive, and so we would likely meet
 10 at the EFSEC offices that morning and carpool together.
 11 The Columbia Generating Station is some distance away,
 12 so additional travel arrangements will be coordinated in
 13 the coming months.
 14 CHAIR DREW: Thank you.
 15 I would also like to let the Council members
 16 know that, as you could see by the boxes and carts
 17 around, we are moving next week. Actually this week, we
 18 have to be clear of all our items and take our last walk
 19 out the door on Thursday of this week before moving to
 20 the new facility, which is located at 621 Woodland
 21 Square Loop in Lacey. And our Council meeting next
 22 month will be held in the hearing room of that facility,
 23 which is room 110.
 24 One of the really nice things about it is
 25 that it's a nice facility, but you walk into the lobby

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1 and into the hearing room. So it's a little less
 2 cumbersome than getting through the door and coming up
 3 to this facility. So that will be a nice improvement as
 4 well. So we look forward to seeing those of you who
 5 will be there in person.
 6 And otherwise, there is no more news or
 7 business at this meeting, so we are adjourned.
 8 (Adjourned at 1:44 p.m.)
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1
 2 CERTIFICATE
 3
 4 STATE OF WASHINGTON
 5 COUNTY OF THURSTON
 6
 7 I, Tayler Garlinghouse, a Certified Shorthand
 8 Reporter in and for the State of Washington, do hereby
 9 certify that the foregoing transcript is true and
 10 accurate to the best of my knowledge, skill and ability.
 11
 12
 13
 14 _____
 15 Tayler Garlinghouse, CCR 3358
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Kittitas Valley Wind Power Project

Monthly Operations Report

June 2019

Project Status Update

Production Summary:

Power generated: 43,929 MWh
Wind speed: 10.4 m/s
Capacity Factor: 60.5%

Safety:

No incidents

Compliance:

Project is in compliance

Sound:

No complaints

Shadow Flicker:

No complaints

Environmental:

No incidents

Kittitas Valley Wind Power Project

Annual Emergency Drills

June 2019

The full staff of the Kittitas Valley Wind Power Project participate in 5 annual drills. These annual drills consist of:

- **Fire / Office evacuation**
- **Medical Emergency**
- **Tower Evacuation**
- **Severe weather**
- **Hazardous spill**

These drills include EDP Renewables employees and our long-term contractors.

Additionally:

- My HQ in Houston also springs surprise drills on us.
- Our corporate Crisis Response Team runs annual drills based on a selected scenario. Some of these involve field participation and others do not.
- Our local Fire District has run training scenarios at our O&M building.
- We also participate in scheduled and unscheduled drills put on by our OEM contractor, Suzlon.

Since COD 12/2011, the site has run and/or participated in over 55 Emergency drills.

Although I've involved external EMS teams in the past at other wind farms, we haven't engaged Kittitas EMS or Fire and Rescue since our protocol has site personnel responsible for moving an injured worker down tower and to the waiting ambulance or life flight whom we direct to the location as needed. Involving EMS utilizes sparse resources and I don't feel they were value added and justified the effort. Our lessons learned have typically been around internal communications and not regarding EMS response time or coordination.



Wild Horse Wind Facility

EFSEC – Monthly Compliance Report

June 2019

Safety

No lost-time accidents or safety injuries/illnesses

Compliance/Environmental

Nothing to report

Operations/Maintenance

Nothing to report

Wind Production

June generation totaled 67,059 MWh for an average capacity factor of 34.17%

Eagle Update

Nothing to report



Chehalis Generation Facility----Monthly Plant Report – June 2019

Washington Energy Facility Site Evaluation Council

07.06.2019

Safety:

- There were no recordable incidents this reporting period and the plant staff has achieved 1431 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 were in compliance with the permit limits for the month.

Operations and Maintenance Activities:

- The Plant generated 116,650 MW-hours in May for 2019 Year-To-Date generation equaling 721,895 MW-hours. The YTD capacity factor is 33.3%.

Regulatory/Compliance:

- Nothing to report this period.

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

June 2019

Safety and Training

- There were no accidents or injuries during the month and the plant staff has achieved 3832 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 and quarter.

Operations & Maintenance

- Grays Harbor Energy Center (GHEC) operated 18 days during the month, with 6 starts on U1, and 4 start on U2.
- GHEC generated 191,132MWh during the month and 1,170,800MWh YTD
- The plant capacity factor was 43% for the month and 44% YTD.
- Annual Maintenance Outage May 13-June 5th.

Noise and/or Odor

- None.

Site Visits

- June 18th, 4 EFSEC Council members (Drew, Stephenson, Brewster, Siemann), 4 EFSEC staff (Bumpus, Kidder, Moon, Henderson), one from AG Office and one member of the public (Montesano) attended the tour.

Other

- A member of the public called asking if we were generating power at our site and general knowledge, or understanding type questions, about the steam being emitted from the cooling tower. I explained the steam cycle and cooling towers function to hi.,

Energy Northwest
July 16, 2019 EFSEC Council Meeting
Operations Reporting Period for June 1-30, 2019
Site Contact: Mary Ramos

Washington Nuclear Project 1 and 4 (WNP-1/4)

No updates to report.

Columbia Generating Station (CGS)

Refueling and maintenance outage

CGS connected to the grid on June 21, 2019, marking the end of Refueling and Maintenance Outage 24.

National Pollutant Discharge Elimination System (NPDES) Permit

On June 10, 2019, Energy Northwest received a letter from EFSEC requesting additional information regarding the CGS NPDES Permit renewal application. Energy Northwest responded to EFSEC's questions on June 24, 2019.

On June 25, 2019, EFSEC and Washington Department of Ecology (Ecology) staff visited CGS to walk down the facility's new Dechlorination Chemical Feed Project. During the visit, Ecology requested copies of the contracts Energy Northwest has in place with GE Betz Inc., now known as Suez Water Technologies Solutions (WTS). Copies of the contract documents were provided to EFSEC and Ecology on July 1, 2019.

Fire Marshal Re-inspection

On June 24, 2019, the State Fire Marshal's office and EFSEC staff conducted a fire and life safety re-inspection of CGS. During the close out meeting on the same day, the Deputy State Fire Marshal confirmed all open items which are not being appealed have been accepted and will be closed out.

Energy Facility Site Evaluation Council

Non Direct Cost Allocation for 1st Quarter FY 2020 July 1, 2019 – September 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	10%
Wild Horse Wind Power Project	10%
Columbia Generating Station	25%
Columbia Solar	13%
WNP-1	3%
Whistling Ridge Energy Project	3%
Grays Harbor 1&2	13%
Chehalis Generation Project	11%
Desert Claim Wind Power Project	9%
Grays Harbor Energy 3&4	3%



Sonia E. Bumpus, EFSEC Manager

Date: 7/9/2019