DEPARTMENT OF ECOLOGY
State of Washington

Application for a State Waste Discharge Permit to Discharge Industrial Wastewater to a Publicly-Owned Treatment Works (POTW)

This application is for a state waste discharge permit for a discharge of industrial wastewater to a publicly-owned treatment works (POTW) as required by Chapter 90.48 RCW and Chapter 173-216 WAC. It is designed to provide Ecology with information on pollutants in the waste stream, materials that may enter the waste stream, and the flow characteristics of the discharge.

Ecology may request additional information to clarify the conditions of this discharge. The applicant should reference information previously submitted to Ecology that applies to this application in the appropriate section.

SECTION A. GENERAL INFORMATION

1. Applicant Name: Goldendale Generating Station - Puget Sound Energy

2. Facility Name: _____
(if different from Applicant)

3. Applicant Mail Address: 600 Industrial Way
Street

Goldendale, WA — 98620
City/State — Zip

4. Facility Location Address: _____
(if different from 3 above) Street

_____
City/State

5. UBI No. 1779010 055

Sometimes called a registration, Identifier (UBI) number is a nine- business activities. The number Application to register with or obt Revenue, Licensing, Employmer Division of the Secretary of State program.

Permit applications not finalized or need Ecology review.

6. Latitude/longitude of the facility as decimal degrees (NAD83

45.8125 / 120.8325

FOR OFFICE USE ONLY	Check One:	New/Renewal ☐	Modification ☐
Date Application Received	Date Fee Paid	Application/ Permit No.	Date Application Accepted

7. Person to contact who is familiar with the information contained in this application:

Joey Henderson	Spv, Environmental Programs
Name	Title
425-457-5835	
Telephone number	Fax number

8. Check One:

☒ **Permit Renewal** (including renewal of temporary permits)

Does this application request a greater amount of wastewater discharge, a greater amount of pollutant discharge, or a discharge of different pollutants than specified in the last permit application for this facility? ☐ YES ☒ NO

For permit renewals, the current permit is an attachment, by reference, to this application.

☐ **Permit Modification**

☐ **Existing Unpermitted Discharge**

☐ **Proposed Discharge**

Anticipated date of discharge: _____

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and/or imprisonment for knowing violations.

Signature*	Date	Title

Printed Name

*Applications must be signed as follows: corporations, by a principal executive officer of at least the level of vice-president; partnership, by a general partner; sole proprietorship, by the proprietor. If these titles do not apply to your organization, the person who makes budget decisions for this facility must sign the application.

The application signatory may delegate signature authority for submittals required by the permit, such as monthly reports, to a suitable employee. You can delegate this authority to a qualified individual or to a position, which you expect to fill with a qualified individual. If you wish to delegate signature authority, please complete the following:

Gerald Klug	3/31/2015	Plant Manager
Signature of delegated employee	Date	Title or function at the facility

Gerald Klug
Printed name

SECTION B. PRODUCT INFORMATION

1. Briefly describe all manufacturing processes and products, and/or commercial activities, at this facility. Provide the applicable Standard Industrial Category (SIC) and the North American Industry Classification System (NAICS) Code(s) for each activity (see *North American Industrial Classification System,* 2007 ed.). You can find the 1997 NAICS codes and the corresponding 1987 Standard Industry Category (SIC) codes at (http://www.census.gov/epcd/naics/frames3.htm).

Description: The Goldendale Generating Station (SIC Code 4911) is a single gas turbine, single steam turnine, combined cycle electric generation facility. Natural gas is burned in a gas turbine engine, which drives an electrical generator. Exhaust from the gas turbine is directed to a heat recovery steam generator (HRSG) to produce steam. The steam drives a steam turbine generator, producing additional electrical energy.

The facility receives makeup water from the City of Goldendale. Makeup water passes through an on-site demineralization process, is stored, and then used as cooling tower makeup, HRSG makeup, combustion turbine wash water, and other miscellaneous uses. Waste streams generated include neutralized demineralized regeneration waste, HRSG non-oily waste, oil/water separator effluent, and cooling tower blowdown.

2. List raw materials and products used at his facility:

Type	RAW MATERIALS	Quantity
Grapes (Example)		*1,000 tons per year*
Natural Gas		1,525,413.5 BTU/hr
Water		1,041 gpm (peak), 375 gpm avg

Type	PRODUCTS	Quantity
Grape Juice(Example)		*300,000 gallons per year*
Electrical Energy		277 MW avg max output

SECTION C. PLANT OPERATIONAL CHARACTERISTICS

1. For each process listed in B.1. that generates wastewater, list the process, assign the waste stream a name and an ID # and describe whether it is a batch or continuous flow.

Process	Waste Stream Name	Waste Stream ID#	Batch (B) or Continuous (C) Process
Influent Water Demineralization	Neutralized wastewater	1	B
Oil/Water Separation	Oil/Water Separator Effluent	2	B
Cycle & Sanitary Waste	Non-Oily Waste & Sanitary Waste	3	C
Cooling Tower	Cooling Tower Blowdown	4	C

2. On a separate sheet, produce a schematic drawing showing production processes, water flow through the facility, wastewater treatment devices and waste streams as named above. The drawing should indicate the source of intake water and show the operations contributing wastewater to the effluent. The treatment units should be labeled. Construct a water balance by showing average flows between intakes, operations, treatment units, and points of discharge to the POTW. (*See the example on page 16 of this application form.)*

3. What is the maximum daily wastewater discharge flow? 141,120 gallons/day

   What is the maximum average monthly wastewater discharge flow (daily flows averaged over a month)? 88,710 gallons/day

4. Describe any planned wastewater treatment improvements or changes in wastewater disposal methods, and the schedule for these improvements. *(Use additional sheets, if necessary and label as attachment C4.)*

   None.

5. If production processes are subject to seasonal variations, provide the following information. The combined value for each month should equal the estimated total monthly flow. Please indicate the proper flow unit by checking one of the following boxes:

☐ gallons per day ☐ gallons per month ☐ million gallons per month

Waste Stream ID#	MONTHS											
	J	F	M	A	M	J	J	A	S	O	N	D
Estimated Total Monthly Flow (GPD)												

6. How many hours a day does this facility typically operate? 24

How many days a week does this facility typically operate? 7

How many weeks per year does this facility typically operate? 52

7. List all incidental materials, such as oil, paint, grease, solvents, and cleaners, that are used or stored on site (*list only those with quantities greater than 10 gallons for liquids and 50 pounds for solids).* For solvents and solvent-based cleaners, include a copy of the material safety data sheet and estimate the quantity used. (*Use additional sheets, if necessary, and label as attachment C.7.)*

Materials/Quantity Stored: See Attachment C7

8.	Some types of facilities are required to have spill or waste control plans. Does this facility have:	Yes	No
a.	A spill prevention, control, and countermeasure plan (40 CFR 112)?	☒	☐
b.	An Oil Spill Contingency Plan (chapter 173-182 WAC)?	☐	☒
c.	An emergency response plan (per WAC 173-303-350)?	☒	☐
d.	A runoff, spillage, or leak control plan (per WAC 173-216-110(f))?	☒	☐
e.	Any spill or pollution prevention plan required by local, state or federal authorities? If yes specify: _____	☐	☒
f.	A solid waste control plan?	☒	☐
g.	A Slug Discharge Control Plan (40 CFR 403.8(f)(2)(v))?	☒	☐

SECTION D. WATER CONSUMPTION AND WATER LOSS

1. Potable water source(s):

☒ Public System (Specify) City of Goldendale

☐ Private Well ☐ Surface Water

a. Water Right Permit Number: _____

b. Legal Description of Water Source

_____ ¼S, _____ ¼E, _____, Section, _____ TWN, _____ R

2. Potable water use

a. Indicate total water use____

Gallons per day (average) 540,000

Gallons per day (maximum) 1,499,040

b. Is water metered?

☒ YES ☐ NO

SECTION E. WASTEWATER INFORMATION

How are the water intake and effluent flows measured?

Intake: Metered

Effluent Metered

Describe the collection method for the samples analyzed below. (*i.e.*, grab, 24-hour composite). Applicants must collect grab samples (not composites) for analysis of pH, temperature, cyanide, total phenols, residual chlorine, oil and grease, fecal colif (including E. coli), and Enterococci (previously known as fecal streptococcus at § 122.26 (d)(2)(iii)(A)(3)),or volatile organi

Grab

Has the effluent been analyzed for any other parameters than those identified in question E.4.? ☐ YES ☒ NO
If yes, attach results and label as attachment E.4. This data must clearly show the date, method and location of sampling. *(Nc Ecology may require additional testing.)*

Provide measurements or range of measurements for treated wastewater prior to discharge to the POTW for the parameters w an "X" in the left column. If you obtain the application from the internet, contact Ecology's regional office to see if testing f subset of these parameters is permissible. All analyses (except pH) must be conducted by a laboratory registered or accredite Ecology (WAC 173-216-125). If this is an application for permit renewal, provide data for the last year for those parameters are routinely measured. For parameters measured only for this application, place the values under "Maximum." Report the values with units as specified in the parameter name or in the detection level.

The Permittee must use the specified analytical methods, detection limits (DLs) and quantitation levels (QLs) in the followin table unless Ecology approves an alternate method or the method used produces measurable results in the sample and EPA h listed it as an EPA approved method in 40 CFR Part 136. If the Permittee uses an alternative method as allowed above, it mu report the test method, DL, and QL on the discharge monitoring report or in the required report.

Parameter	Measurement Values			Number of Analyses	Analytical Method Std. Methods 19th,20th edition or EPA	Dete Limit/Qua Le
	Minimum	Maximum	Average			
) (5 day)					SM 5210 B	/2 n
)					SM 5220 D	/10
l suspended solids	10	350	110		SM 2540 D	/5 n
d Dissolved Solids					SM 2540 E	
l dissolved solids					SM 2540 C	
ductivity romhos/cm)					SM 2510 B	
nonia-N as N					SM 4500-NH_3 C	/0.3
					SM 4500-H	0.1 stand
l coliform anisms/100 mL)					SM 9221 E or 9222 D	
l coliform anisms/100 mL)					SM 9221 B or 9222 B	
olved oxygen					SM 4500-O C/G	
te + nitrite-N as N					SM 4500-NO_3 E	100
l kjeldahl N as N					SM 4500-N_{org} C/E/FG	300
o-phosphate-P as P					SM 4500-P E/F	10
l-phosphorous-P as P					SM 4500-P E/P/F	10
l Oil & grease	ND	ND	ND		EPA 1664A	1.4/5
TPH - Dx					Ecology NWTPH Dx	250/25
TPH - Gx					Ecology NWTPH Gx	250/25
ium					EPA 200.7	10
ride					SM 4500-Cl C	0.15
ride					SM 4500-F E	.025/0.
nesium					EPA 200.7	10/5(
ssium					EPA 200.7	700/
um					EPA 200.7	29/
ate					SM 4500-SO_4 C/D	/200
nic(total)			0.00235		EPA 200.8	0.1/0.

Parameter	Measurement Values			Number of Analyses	Analytical Method Std. Methods 19th,20th edition or EPA	Dete Limit/Qua Le
	Minimum	Maximum	Average			
ım (total)					EPA 200.8	0.5/2
nium (total)					EPA 200.8	.05/.2
mium (total)	ND	ND	ND		EPA 200.8	0.2/1
per (total)	ND	0.047			EPA 200.8	0.4/2
l (total)			ND		EPA 200.8	0.1/.5
cury (total) pg/L			ND		EPA 1631E	0.2/0.
bdenum(total)					EPA 200.8	0.1/0.
el(total)			0.0015		EPA 200.8	0.1/0.
nium (total)			ND		EPA 200.8	1/1
r (total)			ND		EPA 200.8	.04/.2
(total)	0.073	0.26	0.148		EPA 200.8	0.5/2.

Does this facility use any of the following chemicals as raw materials or produce them as part of the manufacturing process, or are they present in the wastewater? ☐ YES ☒ NO

(*The number in the column next to the chemical name is the Chemical Abstract Service (CAS) reference number to in identifying the compound.*)

If yes, specify how the chemical is used and the quantity used or produced:

METALS, CYANIDE & TOTAL PHENOLS			
Antimony, Total	7440-36-0	Nickel, Total	7440-02-0
Arsenic, Total	7440-38-2	Selenium, Total	7782-49-2
Beryllium, Total	7440-41-7	Silver, Total	7440-22-4
Cadmium, Total	7440-43-9	Thallium, Total	7440-28-0
Chromium (hex) dissolved	18540-29-9	Zinc, Total	7440-66-6
Chromium, Total	7440-47-3		
Copper, Total	7440-50-8	Cyanide, Total	57-12-5
Lead, Total	7439-92-1	Cyanide, Weak Acid Dissociable	
Mercury, Total	7439-97-6)	Phenols, Total	

PESTICIDES			
Aldrin	309-00-2	Endrin	72-20-8
alpha-BHC	319-84-6	Endrin Aldehyde	7421-93-4
beta-BHC	319-85-7	Heptachlor	76-44-8
gamma-BHC	58-89-9	Heptachlor Epoxide	1024-57-3
delta-BHC	319-86-8	PCB-1242	53469-21-9
Chlordane	57-74-9	PCB-1254	11097-69-1
4,4'-DDT	50-29-3	PCB-1221	11104-28-2
4,4'-DDE	72-55-9	PCB-1232	11141-16-5
4,4' DDD	72-54-8	PCB-1248	12672-29-6
Dieldrin	60-57-1	PCB-1260	11096-82-5
alpha-Endosulfan	959-98-8	PCB-1016	12674-11-2
beta-Endosulfan	33213-65-9	Toxaphene	8001-35-2
Endosulfan Sulfate	1031-07-8		

VOLATILE COMPOUNDS			
Acrolein	107-02-8		
Acrylonitrile	107-13-1	1,1-Dichloroethylene	75-35-4
Benzene	71-43-2	1,2-Dichloropropane	78-87-5
Bromoform	75-25-2	1,3-dichloropropene (mixed isomers) (1,2-dichloropropylene)	542-75-6
Carbon tetrachloride	56-23-5	Ethylbenzene	100-41-4
Chlorobenzene	108-90-7	Methyl bromide (Bromomethane)	74-83-9
Chloroethane	75-00-3	Methyl chloride (Chloromethane)	74-87-3
2-Chloroethylvinyl Ether	110-75-8	Methylene chloride)	75-09-2
Chloroform	67-66-3	1,1,2,2-Tetrachloroethane	79-34-5
Dibromochloromethane	124-48-1	Tetrachloroethylene	127-18-4
1,2-Dichlorobenzene	95-50-1	Toluene (108-88-3)	
1,3-Dichlorobenzene	(541-73-1)	1,2-Trans-Dichloroethylene (Ethylene dichloride)	156-60-5
1,4-Dichlorobenzene	106-46-7	1,1,1-Trichloroethane	71-55-6
Dichlorobromomethane	75-27-4	1,1,2-Trichloroethane	79-00-5
1,1-Dichloroethane	75-34-3	Trichloroethylene	79-01-6
1,2-Dichloroethane	107-06-2	Vinyl chloride	75-01-4

ACID COMPOUNDS			
2-Chlorophenol	95-57-8	4-nitrophenol	100-02-7
2,4-Dichlorophenol	120-83-2	Parachlorometa cresol (4-chloro-3-methylphenol)	59-50-7
2,4-Dimethylphenol	105-67-9	Pentachlorophenol	87-86-5
4,6-dinitro-o-cresol (2-methyl-4,6,-dinitrophenol)	534-52-1	Phenol	108-95-2
2,4 dinitrophenol	51-28-5	2,4,6-Trichlorophenol	88-06-2
2-Nitrophenol	88-75-5		

BASE/NEUTRAL COMPOUNDS (compounds in bold are Ecology PBTs)			
Acenaphthene	83-32-9	3,3-Dichlorobenzidine	91-94-1
Acenaphthylene	208-96-8	Diethyl phthalate	84-66-2
Anthracene	120-12-7	Dimethyl phthalate	131-11-3
Benzidine	92-87-5	Di-n-butyl phthalate)	84-74-2
Benzyl butyl phthalate	85-68-7	2,4-dinitrotoluene	121-14-2
Benzo(*a*)anthracene	56-55-3	2,6-dinitrotoluene	606-20-2
Benzo(b)fluoranthene (3,4-benzofluoranthene)	205-99-2	Di-n-octyl phthalate	117-84-0
Benzo(j)fluoranthene	**205-82-3**	1,2-Diphenylhydrazine (*as Azobenzene*)	122-66-7
Benzo(k)fluoranthene (11,12-benzofluoranthene)	207-08-9	Fluoranthene	206-44-0
Benzo(r,s,t)pentaphene	**189-55-9**	Fluorene	86-73-7
Benzo(*a*)pyrene	50-32-8	Hexachlorobenzene	118-74-1
Benzo(*ghi*)Perylene	191-24-2	Hexachlorobutadiene	87-68-3
Bis(2-*chloroethoxy)*methane	111-91-1	Hexachlorocyclopentadiene	77-47-4
Bis(2-*chloroethyl*)ether	111-44-4	Hexachloroethane	67-72-1
Bis(2-*chloroisopropyl*)ether	39638-32-9	Indeno(*1,2,3-cd*)Pyrene	193-39-5
Bis(2-*ethylhexyl*)phthalate	117-81-7	Isophorone	78-59-1
4-Bromophenyl phenyl ether	101-55-3	**3-Methyl cholanthrene**	**56-49-5**
2-Chloronaphthalene	91-58-7	Naphthalene	91-20-3
4-Chlorophenyl phenyl ether	7005-72-3	Nitrobenzene	98-95-3
Chrysene	218-01-9	N-Nitrosodimethylamine	62-75-9
Dibenzo (a,j)acridine	**224-42-0**	N-Nitrosodi-n-propylamine	621-64-7
Dibenzo (a,h)acridine	**226-36-8**	N-Nitrosodiphenylamine	86-30-6
Dibenzo(a-*h*)anthracene (1,2,5,6-dibenzanthracene)	53-70-3	**Perylene**	**198-55-0**
Dibenzo(a,e)pyrene	192-65-4	Phenanthrene	85-01-8
Dibenzo(a,h)pyrene	189-64-0	Pyrene	129-00-0
		1,2,4-Trichlorobenzene	120-82-1

7. Are any other pesticides, herbicides or fungicides used at this facility? ☒ YES ☐ NO

If yes, specify the material and quantity used:

The facility utilizes oxidizing biocide (10% sodium hypochlorite) for control of biological growth in the cooling towers and the water storage tanks. Volume used varies with the heat load and time of year, but will average approximately 5 gal/day.

8 Are there other pollutants that you know of or believe to be present? ☐ YES ☒ NO

If yes, specify the pollutants and their concentration if known
(attach laboratory analyses if available as Attachment E8):

9. Is the wastewater being discharged, or proposed for discharge, to the POTW designated as a dangerous waste according to the procedures in Chapter 173-303 WAC?

☐ YES ☒ NO ☐ DON'T KNOW

10. If the answer to question 9 above is yes, how did the waste designate as a dangerous waste *(check appropriate box)*?

For Listed and TCLP Characteristic Wastes only, also provide the Dangerous Waste Number(s).

Listed Waste ☐ Dangerous Waste Number(s) _____

Characteristic Wastes Dangerous Waste Number(s) _____

Ignitable ☐
Reactive ☐
Corrosive ☐
TCLP ☐

State Only Dangerous Wastes Dangerous Waste Number(s) _____

Toxicity ☐
Persistent ☐

For questions about waste designation under the *Dangerous Waste Regulations*, Chapter 173-303 WAC, contact Ecology's Hazardous Waste and Toxics Program at:

Northwest Regional Office - Bellevue	(425) 649-7000
Southwest Regional Office - Lacey	(360) 407-6300
Central Regional Office - Yakima	(509) 575-2490
Eastern Regional Office - Spokane	(509) 329-3400

SECTION F. SEWER INFORMATION

1. Is an inspection and sampling manhole or similar structure available on-site? ☒ YES ☐ NO
   If yes, attach a map or hand drawing of the facility that shows the location of these structures (Label as attachment F1 or this may be combined with map in H8, if H8 is applicable to your facility.)

SECTION G. OTHER PERMITS

1. List all environmental control permits or approvals needed for this facility; for example, air emission permits.

Air Operating Permit and Phase II Acid Rain Permit No. 11AQ-C167 2nd Rev.

General Industrial Stormwater General Permit No. WAR004405

SECTION H. STORMWATER

1. Do you have coverage under the Washington State Industrial Stormwater NPDES General Permit? ☒ YES ☐ NO
   If yes, please list the permit number here. No. WAR004405

   If no, have you applied for a Washington State Stormwater Industrial Stormwater General Permit? ☐ YES ☐ NO

   If you answered no to both questions above, complete the following questions 2 through 5.

2. Does your facility discharge stormwater: *(Check all that apply)*

   ☐ To storm sewer system *(provide name of storm sewer system operator:* _____

   ☐ Directly to any surface waters of Washington State *(e.g., river, lake, creek, estuary, ocean).*

   Specify waterbody name(s) _____

   ☐ Indirectly to surface waters of Washington State *(i.e., flows over adjacent properties first).*

   ☐☐ To a Sanitary Sewer

   ☐ Directly to ground waters of Washington State via:

   ☐☐ Dry well

   ☐ Drainfield

   ☐ Other

3. Areas with industrial activities at facility: *(check all that apply)*

   ☐☐ Manufacturing Building

   ☐☐ Material Handling

   ☐☐ Material Storage

   ☐☐ Hazardous Waste Treatment, Storage, or Disposal *(Refers to RCRA, Subtitle C Facilities Only)*

   ☐☐ Waste Treatment, Storage, or Disposal

   ☐☐ Application or Disposal of Wastewaters

   ☐☐ Storage and Maintenance of Material Handling Equipment

   ☐☐ Vehicle Maintenance

   ☐☐ Areas Where Significant Materials Remain

   ☐☐ Access Roads and Rail Lines for Shipping and Receiving

☐ Other (please specify): _____

4. Material handling/management practices

   a. Types of materials handled and/or stored outdoors: *(check all that apply)*

☐	Solvents	☐	Hazardous Wastes
☐	Scrap Metal	☐	Acids or Alkalies
☐	Petroleum or Petrochemical Products	☐	Paints/Coatings
☐	Plating Products	☐	Woodtreating Products
☐	Pesticides	☐	Other *(please list)*: _____

   b. Identify existing management practices employed to reduce pollutants in industrial stormwater discharges: *(check all that apply)*

☐	Oil/Water Separator	☐	Detention Facilities
☐	Containment	☐	Infiltration Basins
☐	Spill Prevention	☐	Operational BMPs
☐	Surface Leachate Collection	☐	Vegetation Management
☐	Overhead Coverage	☐	Other *(please list)*: _____

5. Attach a facility site map showing stormwater drainage/collection areas, disposal areas and discharge points. This may be a hand-drawn map if no other site map is available *(See example on page 16 of this application). Label this as attachment H.5.*

SECTION I. OTHER INFORMATION

1. Describe liquid wastes or sludges being generated by your facility that are not disposed of in the waste stream(s) and how they are being disposed of. For each type of waste, provide type of waste and the name, address, and phone number of the hauler.

   Waste oil collected in the oil/water separator and combustion turbine wash-water is hauled off site by qualified vendor and disposed of at a permitted facility.

   Waste oil hauler: Safety-Kleen, 814 E Ainsworth, Pasco, WA., 509-547-8771.

2. Describe storage areas for raw materials, products, and wastes.

   Lubricating oils, cleaning solvents, paints, and other maintenance materials are stored within enclosed structures according to Best Management Practices. Water for process requirements is stored in a storage tank. Natrual gas is delivered via pipeline and not stored onsite.

3. Have you designated the wastes described above according to the applicable procedures of Dangerous Waste Regulations, Chapter 173-303 WAC? ☐ YES ☒ NO

SECTION J. CERTIFICATIONS

1. **Approval by Publicly-Owned Treatment Works [required by WAC 173-216-070(4)(b)]**

I approve of the discharge as described in this application. The applicant is:

(Please check the appropriate box below.)

☐ A Significant Industrial User (see Definitions at the end of this Section)

☐ A Categorical Industrial User

☐ Neither of the above

Name and location of sewer system to which this project will be tributary:

City of Goldendale POTW

S29, T4N, R16E, WM

Treatment Works Owner: City of Goldendale

Street: 1103 S Columbus

City/State: Goldendale, WA Zip: 98620

Karl Enyeart 3-31-15 Public Works Director

Signature of Treatment Works Authority | Date | Title

KARL ENYEART

Printed Name

2. **Application review by Intermediate Sewer Owner at point of discharge (if applicable)**

I hereby acknowledge that I have reviewed the application for discharge to this sewer system.

Name and location of sewer system to which this project will be tributary:

Sewer System Owner: _____

Street: _____

City/State: _____ Zip: _____

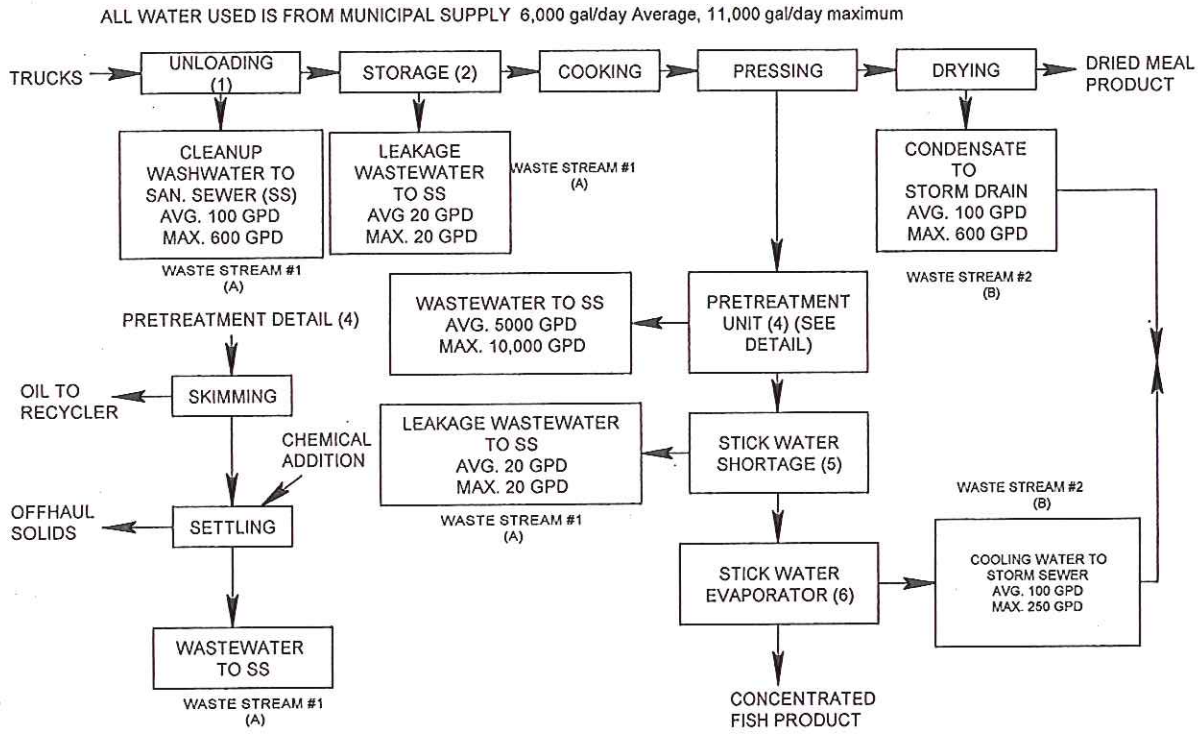
_____ _____ _____

Signature of Sewer System Authority | Date | Title

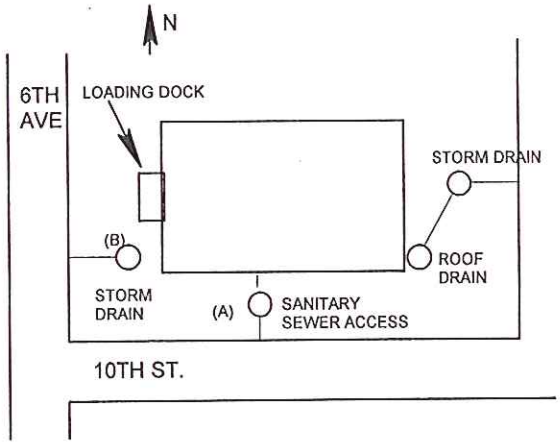
_____

Printed Name

Example 1 for application section C.2. (SCHEMATIC DIAGRAM)



Example 2 for application section F1 or H8 (FACILITY SITE MAP)



DEFINITIONS

Significant Industrial User (SIU)--

1) All industrial users subject to Categorical Pretreatment Standards under 40 CFR 403.6 and 40 CFR Chapter I, Subchapter N; and

2) Any other industrial user that: discharges an average of 25,000 gallons per day or more of process wastewater to the POTW (excluding sanitary, noncontact cooling, and boiler blow-down wastewater); contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the POTW treatment plant; or is designated as such by the Control Authority on the basis that the industrial user has a reasonable potential for adversely affecting the POTW's operation or for violating any pretreatment standard or requirement (in accordance with 40 CFR 403.8(f)(6)).

   Upon finding that the industrial user meeting the criteria in paragraph 2, above, has no reasonable potential for adversely affecting the POTW's operation or for violating any pretreatment standard or requirement, the Control Authority may at any time, on its own initiative or in response to a petition received from an industrial user or POTW, and in accordance with 40 CFR 403.8(f)(6), determine that such industrial user is not a significant industrial user.

Control Authority - means the Washington State Department of Ecology in the case of non-delegated POTWs or means the POTW in the case of delegated POTWs.

Categoric Industrial User (CIU): An industrial user subject to national categorical pretreatment standards promulgated by EPA (40 CFR 403.6 and40 CFR parts 405-471).

Summary of Attachments That May be Required for This Application:

(Please check those attachments that are included)

☒☐ C.2. Production schematic flow diagram and water balance

☐☐ C.4. Wastewater treatment improvements

☒☐ C.7. Additional incidental materials

☐☐ E.8. Additional results of effluent testing

☒☐ F.1. Facility site map

☐☐ H.5. Stormwater drainage map

If you need this document in a format for the visually impaired, call the Water Quality Program at 360-407-6600. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.

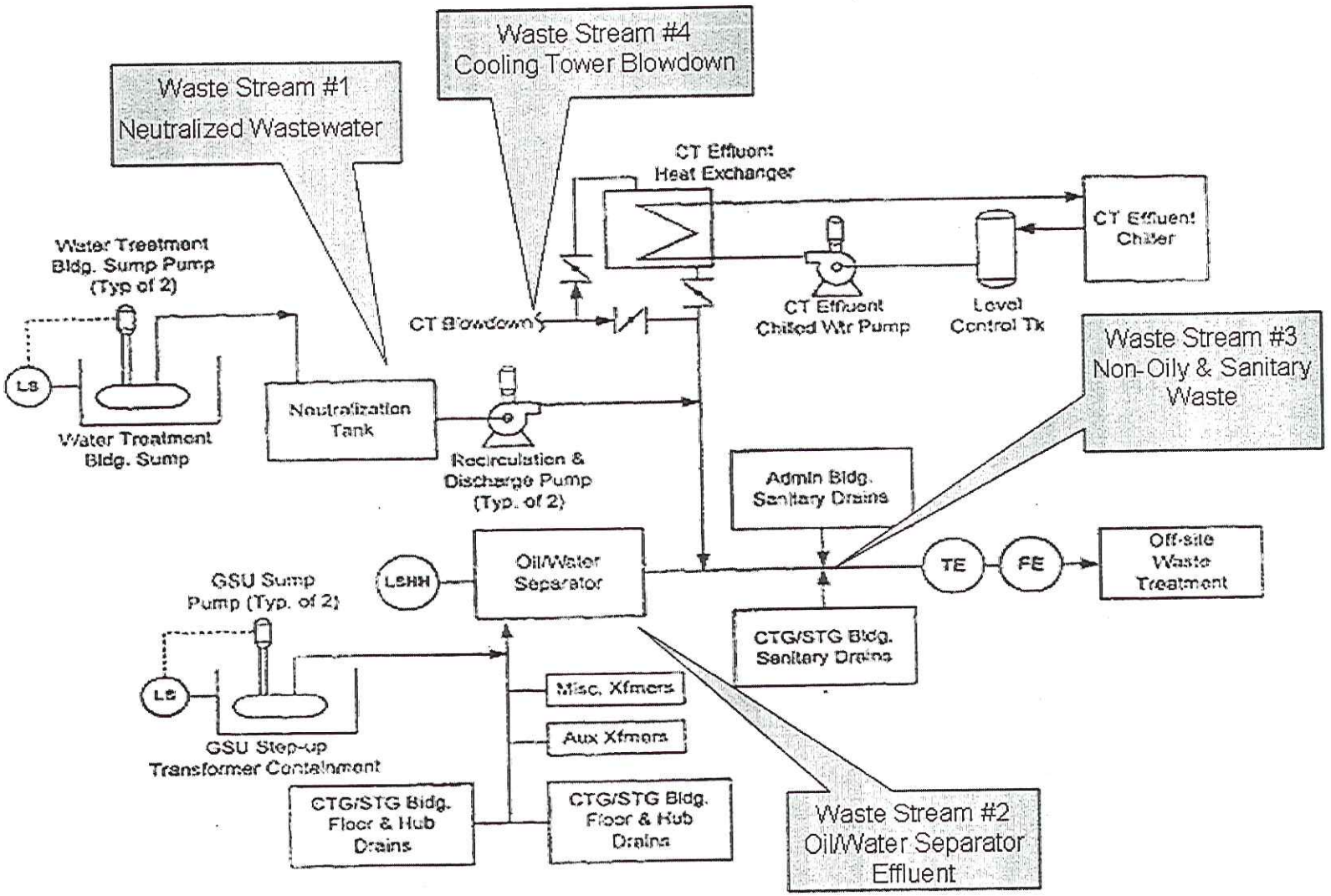
PUGET SOUND ENERGY

Goldendale Generating Station

State Waste Discharge Permit
No. ST-9236

Attachment C1
Production Schematic Flow Diagram and Water Balance

Schematic Flow Diagram



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State Waste Discharge Permit
No. ST-9236

Attachment C7
Additional Incidental Materials

Attachment C.7.

Chemical	Qty	Application	Storage Method
Caustic (Sodium Hydroxide 50%)	10,000 Gal	Demineralized system regeneration chemical	Bulk Tank
Hypochlorite (Bleach 12.5%)	400 Gal	Oxidizing biocide for cooling tower system	Bulk Tank
Nalco BT 4000	400 Gal	Boiler phosphate chemical	Nalco Porta Feed
Hydrochloric Acid (HCL 33%)	10,000 Gal	Demineralized system regeneration chemical and cooling tower PH control	Bulk Tank
Aqueous Ammonia	10,000 Gal	NOx control in turbine exhaust	Bulk Tank
Calibration Gasses (Various)	Varies	Continuous emissions monitor calibration gases	Compressed gas cylinders
Carbon Dioxide	12,000 Lbs	Gas turbine fire suppression system	Bulk Tank
Turbine oils	Varies	Gas and steam turbine lube oil reservoirs	Bulk Tank
Hydrogen gas	400 Lbs	Generator cooling	Compressed gas cylinders
No.2 Diesel fuel	440 Gal	Emergency generator supply	Bulk Tank
Gas Turbine water wash cleaner	100 gal	Gas path water cleaning	Bulk Tank
Nalco Trasar DT 390	400 gal	Circulating water phosphate injection system	Nalco Porta Feed
Nalco 23233	400 gal	Cooling tower corrosion inhibitor	Nalco Porta Feed
Nalco 7408[j1)	400 Gal	Demineralized water chlorine inhibitor	Nalco Porta Feed
Nalco 7399[j2]	400 Gal	Service water storage tank corrosion inhibitor	Nalco Porta Feed

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Goldendale Generating Station

State Waste Discharge Permit
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Attachment F1
Facility Site Map

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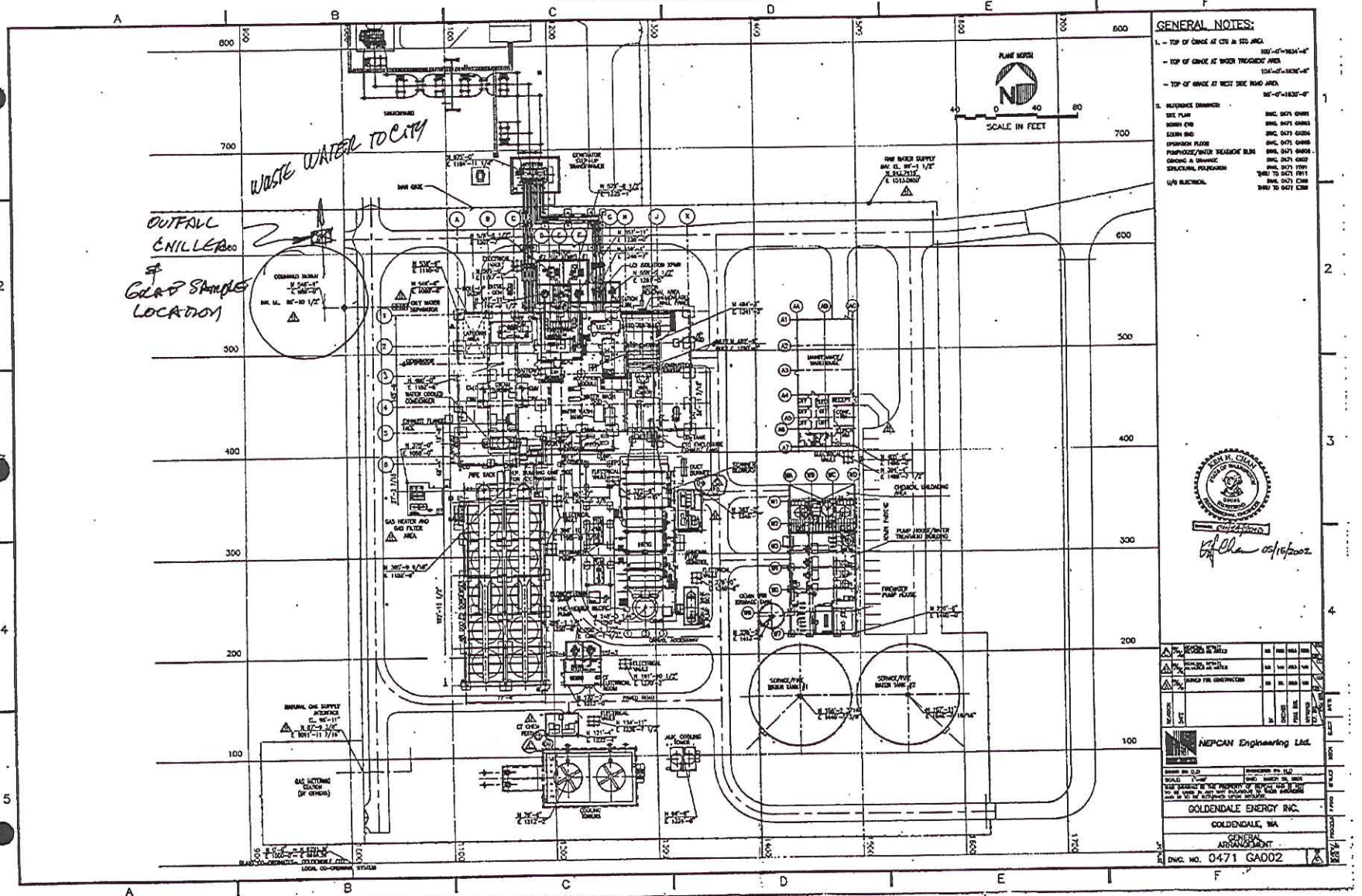

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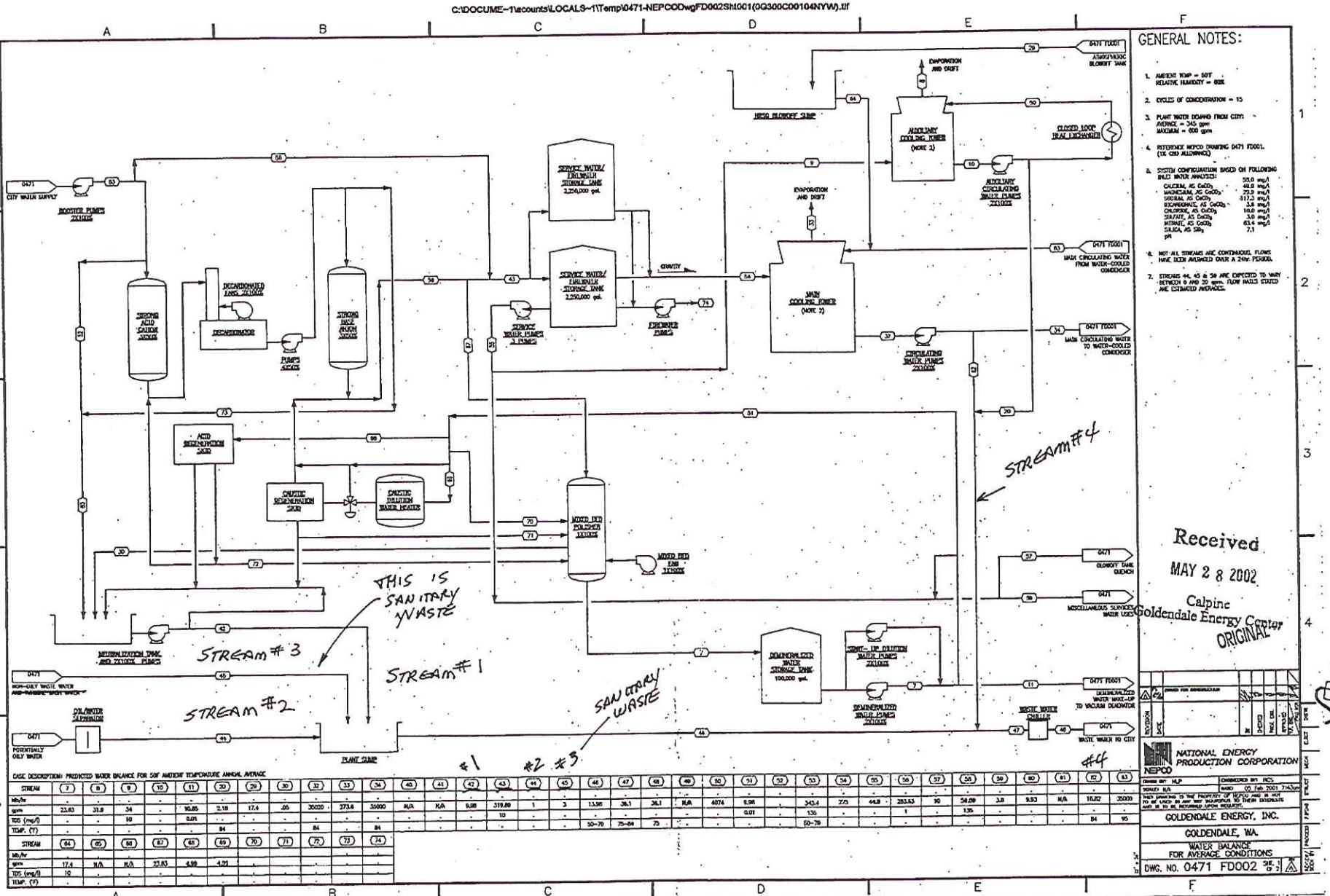

CASE DESCRIPTION: PREDICTED WATER BALANCE FOR 50F AMBIENT TEMPERATURE ANNUAL AVERAGE

STREAM	7	8	9	10	11	20	29	30	32	33	34	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
lb/hr	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gpm	23.83	31.8	34	-	10.85	2.18	17.4	.05	35020	273.6	35000	N/A	N/A	9.98	319.80	1	3	13.36	36.1	36.1	N/A	4074	9.98	-	345.4	775	44.8	283.43	10	34.09	3.8	9.93	N/A	18.82	35000
TDS (mg/l)	-	-	10	-	0.01	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-	0.01	-	135	-	-	1	-	1.35	-	-	-	-	-
TEMP. (°F)	-	-	-	-	84	-	-	-	84	-	84	-	-	-	-	-	-	50-70	75-84	75	-	-	-	-	50-70	-	-	-	-	-	-	-	-	84	95

STREAM	64	65	66	67	68	69	70	71	72	73	74
lb/hr	-	-	-	-	-	-	-	-	-	-	-
gpm	17.4	N/A	N/A	23.83	4.98	4.75	-	-	-	-	-
TDS (mg/l)	10	-	-	-	-	-	-	-	-	-	-
TEMP. (°F)	-	-	-	-	-	-	-	-	-	-	-

ENTERED

1 of 1

PUGET SOUND ENERGY
The Energy To Do Great Things

Puget Sound Energy
P.O. Box 97034
Bellevue, WA 98009-9734
PSE.com

March 26, 2015

Ms. Cindy Huwe
Washington State Department of Ecology, Central Regional Office
15 West Yakima Ave., Ste. 200
Yakima, WA 98902-3452
(509) 457-7105

CERTIFIED MAIL/RETURN RECEIPT REQUESTED

RE: Goldendale Generating Station - Puget Sound Energy
State Waste Discharge Permit No. ST-9236
Application Renewal Package

Dear Ms. Huwe:

Please find enclosed the Goldendale Generating Station State Waste Discharge Permit No. ST-9236 renewal application package. The renewal application is composed of a completed Application to Discharge Industrial Wastewater to a Publicly-Owned Treatment Works (POTW) Renewal Form, a production schematic flow diagram with water balance, additional incidental materials inventory, and a facility site map.

Please contact me if you have any questions or concerns. I can be reached at (425) 457-5835 or joey.henderson@pse.com .

Sincerely,
Puget Sound Energy

Joey Henderson
Supervisor, Environmental Programs

Enclosure: Goldendale Generating Station State Waste Discharge Permit Renewal Application (with Appendices)

CC: Gerald Klug - PSE
Karl Enyeart – City of Goldendale Public Works Director