**Sumas Generating Station**

**and Pipeline**

Emergency Response Plan

Table of Contents

Sumas

 Users guide 2

 Purpose of the plan 3

 How it will be served 3

* Regular business hours
* After hours

## PSE Staff / Emergency Responders

 Gas Staff who reside nearest to Whatcom County 4

 PSE personnel who reside in Whatcom County 4

 PSE plant personnel 4

 Local Emergency Responders 5

Facilities

 Sumas Generating Station 6,7

 Sumas Border Station 8

 Driving directions 9-11

Access / Keys 11

Responding to odors, leaks and breaks 12

Pipeline shutdown 13-16

Maps 17

Location of road crossings 18

**Roles and Responsibilities**

######  Service providers 19

Material / tool List

 Weld Equipment / tools / materials 19

*Users Guide*

**Dispatch**

PSE Staff 4

 Local Emergency Responders 5

Facilities 6-8

Driving Directions 9-11

Emergency Response 12

Maps of pipeline system 17

Material / tool List 19

**First Responders**

PSE Staff 4

 Local Emergency Responders 5

Facilities 6-8

Driving Directions 9-11

Emergency Response 12

Maps of pipeline system 17

Road Crossings 18

Material / tool List 19

**Gas Control**

PSE Staff 4

 Local Emergency Responders 5

Facilities 6-8

Driving Directions 9-11

Emergency Response 12

Emergency Shutdown of Pipeline 13-16

Maps of pipeline system 17

Road Crossings 18

Material / tool List 19

**Generating Station Staff**

PSE Staff 4

 Local Emergency Responders 5

Facilities 6-8

Emergency Response 12

Emergency Shutdown of Pipeline 13-16

Maps of pipeline system 17

Road Crossings 18

Material / tool List 19

**Purpose of this plan:**

This document is intended to provide guidance for responding to emergencies on the pipeline serving the Sumas Generating Station which is isolated from our franchised distribution service territory.

This plan is not intended to be a detailed and comprehensive emergency plan. For those details, please refer to the Corporate Emergency Plan, Gas Operating Standards and Field Procedures.

In the case that this document conflicts with the Corporate Emergency Plan, Gas Operating Standards or Field Procedures, those documents shall take precedence.

#### How Sumas Generating Station is served

**Regular business hours:**

During regular business hours we will first utilize employees who are working at the Generating Station and get Gas Operations employees enroute from Snohomish County. This could include Gas First Response personnel and/or SC&P.

When personnel from Gas Operations travel to the Sumas area for regular duties they should notify Gas Control and Gas Operations Dispatch to let them know they will be in the area, and for approximately how long.

|  |  |
| --- | --- |
| Gas Control | XXXXXXXXXXX |
| Gas Operations Dispatch | XXXXXXXXXXX |

**After Hours:**

Outside of normal business hours we will first contact the Gas First Response and System Control & Protection employees who live closest to Sumas. If none of these people are available, use the normal callout procedure, calling the closest person(s) to the emergency.

**What to do if highways are closed and support is needed:**

If inclement weather, an accident or incident has the primary routes (I-5 and SR-9) closed and support personnel or material are required from the service area, call the System Manager at XXXXXXX, XXXXXXXXXXX or XXXXXXXXXXX to make arrangements for aerial transport to Sumas.

#### PSE gas staff who reside nearest to Sumas or are responsible

#### for the pipeline and stations in the Sumas Area

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Home** | **Cell** |  | **Job** |
| xxxxxxxxxxxxxx | xxxxxxxxxxx | xxxxxxxxxx |  | Pressure Control |
| xxxxxxxxxxxxxx | xxxxxxxxxxx | xxxxxxxxxx |  | Instrumentation |
|  |  |  |  |  |
| xxxxxxxxxxxxxx | xxxxxxxxxxx | xxxxxxxxxx |  | PI Inspector |
|  |  |  |  |  |
| xxxxxxxxxxxxxx | xxxxxxxxxxx | xxxxxxxxxx |  | CFS Technician |
| xxxxxxxxxxxxxx | xxxxxxxxxxx | xxxxxxxxxx |  | CFS Technician |
| xxxxxxxxxxxxxx | xxxxxxxxxxx | xxxxxxxxxx |  | Pressure Control |
| xxxxxxxxxxxxxx | xxxxxxxxxxx | xxxxxxxxxx |  | CFS Technician |
|  |  |  |  |  |
| xxxxxxxxxxxxxx | xxxxxxxxxxx | xxxxxxxxxx |  | Industrial Meter Operations |
|  |  |  |  |  |
| xxxxxxxxxxxxxx | xxxxxxxxxxx | xxxxxxxxxx |  | PI Inspector |
|  |  |  |  |  |
|  |  |  |  |  |
| xxxxxxxxxxxxxx | xxxxxxxxxxx | xxxxxxxxxx |  | GFR Supervisor |
| xxxxxxxxxxxxxx | xxxxxxxxxxx | xxxxxxxxxx |  | Pressure Control Supervisor |
| xxxxxxxxxxxxxx | xxxxxxxxxxx | xxxxxxxxxx |  | Instrumentation Supervisor |

* These personnel have received basic training on pipeline and station operations and using the main line valves to control the 8” high pressure transmission line.
* Call PI Inspectors for emergency locates.

**PSE support Staff in Whatcom County –**

Knowledge of area and keys to facilities

PSE Generating Station Staff

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Home** | **Cell** | **Office** | **Job** |
| xxxxxxxxxxxxxx | xxxxxxxxxxx | xxxxxxxxxx | xxxxxxxxxx | Plant Manager |
| xxxxxxxxxxxxxx | xxxxxxxxxxx | xxxxxxxxxx | xxxxxxxxxx | Plant O&M Supervisor |
| xxxxxxxxxxxxxx |  |  | xxxxxxxxxx |  |
| xxxxxxxxxxxxxx |  |  | xxxxxxxxxx | CT Journey Worker |
| xxxxxxxxxxxxxx |  | xxxxxxxxxx | xxxxxxxxxx | CT Journey Worker |
| xxxxxxxxxxxxxx |  |  | xxxxxxxxxx | CT Journey Worker |

PSE Electric servicemen in Whatcom County

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Home** | **Cell** | **Pager** | **Job** |
| xxxxxxxxxxxxxx |  | xxxxxxxxxx |  | Service Lineman |
| xxxxxxxxxxxxxx |  | xxxxxxxxxx |  | Service Lineman |
| xxxxxxxxxxxxxx |  | xxxxxxxxxx |  | Service Lineman |
| xxxxxxxxxxxxxx |  | xxxxxxxxxx |  | Service Lineman |
| xxxxxxxxxxxxxx |  | xxxxxxxxxx |  | Service Lineman |
| xxxxxxxxxxxxxx |  | xxxxxxxxxx |  | Service Lineman |

######

###### **Emergency Numbers**

|  |
| --- |
| **Police / Fire / 911 / Emergency Management** |
| Whatcom County 911  | Dispatch | xxxxxxxxxxxxxx |
| Whatcom County Emergency Management |  | xxxxxxxxxxxxxx |
| Washington State Patrol |  | xxxxxxxxxxxxxx |
| Sumas Police Department |  | xxxxxxxxxxxxxx |
| Sumas Fire Department | Chief Debruin Mobile | xxxxxxxxxxxxxx |
| Bellingham Fire Department |  | xxxxxxxxxxxxxx |
| Lynden Fire Department | Chief Barr | xxxxxxxxxxxxxx xxxxxxxxxxxxxx |
| **Puget Sound Energy – Gas and Electric Operations** |
| Gas Control | PSE extOutside dialing | xxxxxxxxxxxxxx xxxxxxxxxxxxxx |
| Gas Operations Dispatch | PSE extOutside dialing | xxxxxxxxxxxxxx xxxxxxxxxxxxxx |
| Load Office | PSE extOutside dialingToll free | xxxxxxxxxxxxxx xxxxxxxxxxxxxxxxxxxxxxxxxxxx |
| System Operations Supervisor | Toll Free | xxxxxxxxxxxxxx |
| **U.S. Government – Department of Homeland Security** |
| U.S. Customs |  | xxxxxxxxxxxxxx |
| U.S. Border Patrol |  | xxxxxxxxxxxxxx |
| Canada Customs (Canada Border Services Agency) |  | xxxxxxxxxxxxxx |
| **Sumas Generating Station** |
| Generating Station | 24 hour | xxxxxxxxxxxxxx |
| Control Room Mobile phone | Emergency only | xxxxxxxxxxxxxx |
| Plant O&M Supervisor |  | xxxxxxxxxxxxxx |
| Plant Manager |  | xxxxxxxxxxxxxx |
| **Other Utilities and Pipelines** |
| Westcoast Energy / Spectra Energy | Gas Control | xxxxxxxxxxxxxx |
| Williams Pipeline Sumas District Office | OfficeGas Control | xxxxxxxxxxxxxx |
| Cascade Natural Gas  | Dispatch | xxxxxxxxxxxxxx |
| **Contractors** |
| Infrasource ContractorsXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  | Office | xxxxxxxxxxxxxx |
| Snelson Companies Inc. |  | xxxxxxxxxxxxxx |



**Huntingdon (Sumas) Area Pipeline 24/7 Emergency Contacts**

**2015/16**

|  |  |  |
| --- | --- | --- |
| **Company** | **Name** | **Phone Number** |
| **Fortis BC** | **Gas Control - (Surrey)****Gas Control Satellite phone (Surrey)** | xxxxxxxxxxxxxxxxxxxxxxxxxxxx |
| **Spectra Energy** | **Gas Control - (Calgary) Main****Gas Control - (Fort St John) Back up** | xxxxxxxxxxxxxxxxxxxxxxxxxxxx |
| **Williams – North West Pipelines (North)** | **Gas Control - (Salt Lake)****Gas Control Satellite phone (Salt Lake)** | xxxxxxxxxxxxxxxxxxxxxxxxxxxx |
| **Puget Sound Energy** | **Gas Control - North Console****(Bellevue)****Gas Control - South Console****(Bellevue)** | xxxxxxxxxxxxxxxxxxxxxxxxxxxx |
| **Cascade Natural Gas** | **Gas Control - (Kennewick)** | xxxxxxxxxxxxxx |
| **BP** | **Gas Control - (Tulsa)** | xxxxxxxxxxxxxx |
| **Kinder Morgan Canada** | **Control Center - (Edmonton)** | xxxxxxxxxxxxxx |

# Facilities

Puget Sound Energy’s Sumas Generating Station is located at XXXXXXXXXXXX XXXXXXXXXXXXX (address was XXXXXXXXXXXXXXXX and may be listed that way elsewhere).

**Generating Station – XXXXXXXXXXXXXXXXXXXXXXXXX**

|  |
| --- |
| REDACTED |

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

|  |
| --- |
| REDACTED |

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

|  |
| --- |
| REDACTED |

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

|  |
| --- |
| REDACTED |



**Valve to SOCCO**

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

**Valve to SOCCO**

**Border Crossing/Regulator Station – XXXXXXXXXXXX**

|  |
| --- |
| REDACTED |

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

|  |
| --- |
| REDACTED |

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX



Map and Driving Directions to Generating Station

The facility is located at XXXXXXXXXXXXXXX (see page 10 for map to Border Crossing / Regulator Station).

**From I-5 North at Bellingham**

|  |  |
| --- | --- |
| **Instruction** | **For** |
| xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx | xxxxxx |
| xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx | xxxxxx |
| xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx | xxxxxx |
| xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx | xxxxxx |
| xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx | xxxxxx |
| xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx | xxxxxx |
| xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx | xxxxxx |

|  |
| --- |
| REDACTED |



Map and Driving Directions to Border Crossing / Regulator Station

The facility is located at XXXXXXXXXXXXX (see page 9 for map to Generating Station, and page 13 for schematic).The regulator station sits XXXXXXXXXXX XXXXXXXXXXXXXXXXX.

**From I-5 North at Bellingham**

|  |  |
| --- | --- |
| **Instruction** | **For** |
| xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx | xxxxxx |
| xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx | xxxxxx |
| xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx | xxxxxx |
| xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx | xxxxxx |
| xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx | xxxxxx |
| xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx | xxxxxx |
| xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx | xxxxxx |
| xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx | xxxxxx |
| xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx | xxxxxx |



|  |
| --- |
| REDACTED |

**Directions from Generating Station to Border Station**

For directions from I-5 northbound, see page 9 for map to Generating Station, and page 10 for map to Border Crossing / Regulator Station.

|  |  |  |
| --- | --- | --- |
| **Mile** | **Instruction** | **For** |
| xxx | xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx | xxxxxx |
| xxx | xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx | xxxxxx |
| xxx | xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx | xxxxxx |
| xxx | xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx | xxxxxx |
| xxx | xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx |  |

|  |
| --- |
| REDACTED |

**Access to Facilities**

**Key Number XXXX**

**Sumas Generating Station**

Unless the gates are opened prior to your arrival, you will need to call on the call box to the left of the gates to enter the facility. There are two gates, one at the front of the lumber yard, one at the entrance to the Generating Station (behind the lumber yard). Once you are inside the gates, the Generating Station regulator station is opened with a XXXXXXX key.

**Border Regulator Station**

The chain link fence around the station is locked with a padlock that uses a XXXX. The door to the regulator station building is opened with a XXXXXXX key.

**Border Custody Transfer Point**

This area is about 100 yards north and slightly west of the border regulator station. From the border regulator station, there is a gravel path to the west behind the BP regulator station, then to the north to the PSE border custody transfer point. BP and Cascade Natural Gas have facilities immediately to the west of the PSE facilities. See page 16 for an aerial photograph. The chain link gate and valves are locked with padlocks that use a XXXX key.

**Emergency Response – Odors, leaks or line breaks**

The plant is operated 7x24

If emergency calls are received at the Sumas plant phone number; upon receipt of an emergency call, plant personnel will;

* Immediately notify PSE Gas Control @ XXXXX or XXXXXXXXXXXX
* Immediately respond to the location of the report.
* Upon arriving on site, plant personnel will call Gas Control to notify them of their arrival.
* Investigate the report to the best of their ability and notify Gas Control of their findings.
* If the situation presents a threat to life or property, they shall shut down the pipeline.
* If it is necessary to shut down the pipeline;
	+ Determine if the automated equipment has shut down the pipeline.
	+ If the automated equipment has not shut down the pipeline,
		- Call Gas Control to contact Spectra Energy/Westcoast Energy to shut down the pipeline.
		- Shut the pipeline down manually.
	+ Do not attempt to restore service on the pipeline once it has been shut down.
* Wait for Gas Operations personnel to arrive on site and assist them as necessary.
* Contact the appropriate local emergency response personnel for assistance if needed.
* Keep unauthorized personnel an appropriate distance away from the area if required.
* Provide regular updates to Gas Control.
* Notify electric operations departments and/or personnel as required.

Gas Control will

* Dispatch a Pressure Control Technician.
* Notify Gas Operations Dispatch to send GFR personnel.
* Contact Spectra Energy/Westcoast Energy to shut down the pipeline from the Canadian side if requested.
* Document all pertinent information in the Gas Controllers Log.

Gas Operations Dispatch will

* Dispatch GFR personnel as needed to assist Pressure Control.
* Start an emergency report and track response to the incident.
* Provide emergency notifications per the matrix.
* Respond to additional requests for equipment or field personnel as needed.

Pressure Control and GFR field responders will

* Investigate the odor per the appropriate Operating Standards and Field Procedures.
* Document the investigation as required.

**Locate Requests / Emergency Locate Requests**

If emergency locate requests are received by plant personnel they will

* Take the appropriate information from the caller.
* Instruct the caller to call 811 to make a request for locates through the one-call system.
* Call Gas Operations Dispatch at XXXXXX or XXXXXXXXXXX.

The Dispatcher will

* Dispatch the appropriate personnel to provide locates as requested.**Emergency Shutdown of Pipeline**

Normal operation of the border regulator station feeding the pipeline includes overpressure and underpressure protection. In the event of overpressure or underpressure, valve XXXXX is operated automatically via the pneumatic actuator to shut down flow to the pipeline.

Should an incident occur requiring manual shutdown of the pipeline feeding the Generating Station, shutdown is most easily performed XXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

**XXXXXXXXXXXXXXXXXX**

**XXXXXXXXX**

|  |
| --- |
| REDACTED |

|  |
| --- |
| REDACTED |

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

|  |
| --- |
| REDACTED |

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

**Custody Transfer Point**

**Valve BA-101**

|  |
| --- |
| REDACTED |

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

|  |
| --- |
| REDACTED |

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX



|  |
| --- |
| REDACTED |

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

|  |
| --- |
| REDACTED |

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

**Maps of Distribution and Supply System**

The maps for this area follow the standard numeric system, however, since they are well north of the rest of our service territory, the numbers are unusual.

**See the following OP (Operations) maps:**

000.074

-04.074

**See the following plat maps**

000.075 – Cogeneration Plant

000.076

000.077

000.078

000.079

001.075

001.076

-01.079

-02.080 – Border Regulator Station**Road Crossings**

|  |
| --- |
| REDACTED |

**Roles and Responsibilities of the Service Providers** Infrasource Contractors (IFS) responds to breaks at the request of PSE Gas Dispatch.

Backhoe

PSE does not maintain a backhoe at the Sumas facility.

In the case of an emergency where a backhoe is required on site Infrasource Contractors (IFS) will be notified by Gas Operations Dispatch.

**Material**

PSE maintains materials at the Sumas Generating Station, which will be used as needed in case of a gas emergency (see Material and Tool List Available at the Facility, page #).

**1. Materials and Equipment Available at the Generating Station Site**

* Hand and Power Tools
* Radios
* Oxygen, Lower Explosive Limit (LEL), and Hydrocarbon Monitors
* Assorted First-Aid, Safety, and Personal Protective Equipment

**2. Materials and Equipment Available at the Border Tie-in Station**

200' 8" Pretested Straight Pipe (40' length & 1,200 psi)

**3. Materials and Equipment Available from Pilchuck IFS Contractors Inc.,**

Pickups, Trucks, and Trailers

Dozers and Loaders

Dozers, loaders, sideboom

Cranes and Excavators

Backhoes, excavators, cranes, trenchers, backhoes with pavement breakers

Welding and Tapping Equipment

Arc and gas welding equipment, tapping machines, beveling machines, fusion equipment

Air Equipment

Compressors, pavement breakers, impact tools, tampers.

Miscellaneous Boring Equipment and Rock Saws

Hole hogs, moles, directional drilling equipment, rock/concrete saws.

Compactors and Rollers

Compactors and rollers

Manhole and Trench Shields

Shoring, plates, mud mats

Miscellaneous Equipment and Tools

Generators, lights, pumps, pipe threaders, heaters, hoists, jacks, holiday detectors, pipe benders

Additional Equipment and Tools

Lineup clamps, barricades, traffic cones, saws, drills