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During the course of a review of the April 23rd Sedro Woolley outage in conjunction with our FERC/NERC reliability standards assessment to ensure that the Company was compliant with reliability standards during the system loss of load outage event, PSE came across a communication from the load office to the trading floor that may have inadvertently included non-public transmission information. The transmission outage had been posted on PSE's Oasis prior to this communication, but the attached log may contain more detail than previously made public. Out of an excess of caution, PSE has posted an email sent to the trading floor in response to their request for detailed information on the generation outages that occurred during the loss of load event. The outage log sent from the load office may include some transmission information not previously included in the public posting, in addition to the generation information that was requested.

From: Lindner, Richard B -Rick
Sent: Friday, April 24, 2009 7:35 AM
To: Williams, Jacob
Subject: LOG090423.DOC

0000 to 0500 M.L. JENSEN AND J.M. BOWEN
0500 to 1700 R.L. BURNETT AND A.J. McCULLOCH
0600 to 1600 J.M. THRASHER AND L.D. GRIEGER
1700 to 2400 M.L. JENSEN AND J.M. BOWEN

TRANSMISSION: INTERRUPTIONS AND SYSTEM DISTURBANCES:

ROCKY REACH – CASCADE 230 KV
1545 Douglas County PUD reports a pole fire on structure 5/4.
1611 Chelan PUD serviceman reports the 3 pole structure 5/4 is on fire.
1612 Cascade PCB 647 & Chelan Rocky Reach PCB 7-690 opened by supervisory control to de-energize the line.
1615 Clyde Schlaht will investigate the pole fire.
1727 System Manager notified.
2155 Clyde Schlaht reports the pole fire has been extinguished on structure 5/4. The structure has damage to the center pole and will need replaced along with the cross arms. Mike is the owner of the wheat fields where the pole is located and can escort the repair crew to the location as not to damage his wheat. His number is 509-668-5665.
2250 A crew has been requested for tomorrow to make the repairs.

INTERRUPTIONS

None

RELAY TARGETS

None

ROCKY REACH – CASCADE 230 KV
xxxx to xxxx Clearance issued to xxxx under the L.D. tags.
2108 to L/O The section of line from Chelan Rock Reach PCB 7-690 disc's and pt fuses to Cascade PCB 647 disc's was cutout.
2108 to L/O Chelan PUD Terminal CL #131-09 on Rocky Reach PCB 7-690 disc's & PT fuses.

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Crew replacing 1 pole and cross arms on the 3 pole structure 5/4.
Switchmen: Chelan PUD & Mike Morrison

NOTE: FOLLOWING PORTIONS OF THIS LOG RELATING TO SKAGIT COUNTY OUTAGES ARE PRELIMINARY- MORE TO FOLLOW

SEDRO WOOLLEY 230/115 KV BANK
1625 Sedro Woolley PCB 676, 3159 & 735 relayed open and received a transformer differential lockout alarm.
1704 BPA Dittmer notified of the bank outage.
1705 Kathy Parish reports a bank lock out alarm and the bank is de-energized.
1727 System Manager Notified.
1715 Lloyd Hofkamp will investigate the bank.

INTERRUPTIONS

None

RELAY TARGETS

None

SEDRO WOOLLEY 230/115 KV BANK
xxxx to xxxx Clearance issued to xxxx under the L.D tags.
2222 to L/O Sedro Woolley 230/115 kv transformer bank was cut out between Sedro Woolley PCB 3159, PCB 735 and PCB 676 and its open station service fuses.
Crew testing bank after differential trip.
Switchmen: Lloyd Hofkamp

SEDRO WOOLLEY – BELLINGHAM #4
1735 Bellingham PCB 481 & Sedro Woolley 937 relayed open. Alger Sw 415 & Sw 457 opened on a dead line. Bellingham PCB 481 reclosed and opened to lock out. Sedro Woolley reclosed and relayed open. Norlum Sw 844 opened on a dead bus and Sedro Woolley reclosed and held.

Due to having the Sedro Woolley 230/115 kv bank relayed out at 1625, when the Sedro Woolley – Bellingham #4 relayed with the Sedro – Woolley Bellingham #3 out for maintenance and the March Point 230/115 kv bank out for maintenance the voltage on Whidbey island dropped significantly causing Whidbey PCB 765 & PCB 635 to relay open and dropped Whidbey island.

This electrical configuration caused an “island” in the Skagit area consisting of the Baker Project, Sedro Woolley, Fredonia, March Point Co-gen, North Point and BPA Fidalgo.

1744 Lower Baker and Upper Baker generation tripped offline causing a cascading outage of the Skagit “island” that was created in the system.
1814 Opened the March Point Breakers to prepare to restore load and restore the March Point 230/115 kv bank.
1818 March Point 230/115 kv bank restored.
1825 Commenced restoring load out of March point towards Whidbey island.

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1834 Sedro 115kv breakers open to prepare to pick up load.
1840 Whidbey load restored
1907 Sedro Woolley – Beaver Lake – March Point line restored to service.
1908 Commenced restoring load to Borrows Bay, BPA Fidalgo, Texaco West, Texaco East, Fredonia and North Point.
1930 Fredonia Unit #4 online.
1940 Fredonia Unit #3 online.
The Baker River – Sedro Woolley lines restored.
1946 Upper Baker Unit #2 online.

2021 Sedro Woolley – March Point #2 restored to service.
2110 Lower Baker Unit #3 online.
2144 Bert Hillier reports a burnt 4/0 copper jumper on the center phase at East Maple St & South Ashley St in Bellingham.
2332 Norlum Sw 844 closed by supervisory and Alger is the last station to be energized from this outage.

INTERRUPTIONS

1735 Alger, Norlum, Langley, Brooks Hill, Freeland, Greenbank, Swantown, Coupeville, Faber, Summit and Wilson
Crescent Harbor, Hillcrest, Clover Valley, Porter, Burrows Bay, BPA Fidalgo, North Point, Texaco West, Texaco East, Olympic Bayview, Olympic Avon, Burlington, Rita Street, Hamilton, Upper Baker, Lower Baker, Koma Kolshan, Peths Corner, Hickox, Mount Vernon, Big Rock, Gages, Riverbend, Anacortes, Sedro Woolley 115kv, Sawmill, Fredonia, Air Liquid & Padilla Bay

RELAY TARGETS

Bellingham PCB 481 SEL-121G-3: Type: 1ABC, Dist: 22.53, Dur: 4.75 & Curr: 2976.6

SEDRO WOOLLEY – BELLINGHAM #4

xxxx to xxxx Clearance issued to Rand Gilbertson under the L.D. tags.
2222 to L/O The section of line from Bellingham PCB 481 line disc to Pole Sw 415 was cutout.
Crew repairing burnt 4/0 copper jumper.
Switchmen: Craig Lind & Bill Roberts.

SEDRO WOOLLEY - FREDONIA

1738 System Operator reports a car/pole on Hwy 20 at Vista View Dr.
1800 Wes Gibbs reports a broken pole on Highway 20 at Vista View Drive in Sedro Woolley.
2030 Bill Roberts will make the repairs.

INTERRUPTIONS

none

RELAY TARGETS

none

SEDRO WOOLLEY – FREDONIA

2216 to L/O Clearance issued to Bob Anderson
2213 to L/O The section of line from Rita Street Sw 3300 to Pole Sw 607 was cutout.
Crew to replace pole after a car/pole.
Switchmen: Jeff Breckinridge & Dave Polk

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TRANSMISSION LINES: CLEARANCE AND SYSTEM EVENTS:

500KV LINE

230KV LINE

115KV LINE

STILLWATER – COTTAGE BROOKE

0758 to 1715 Clearance issued to John Schuh.
0755 to 2225 The section of line from Cottage Brooke PCB 1003 to Pole Sw 88 was cutout.
Crew to replace 1 pole.
Switchmen: Steve Sandbo & J. Jackson

COTTAGE BROOK – MOORLANDS

0729 to 1502 Clearance issued to Ken Lulow.
0719 to 1531 The section of line from Hollywood switch 475 to Norway Hill switch 330 cut out.
Crew replacing 2 poles.
Switchmen: Steve Sandbo & J. Jackson

O'BRIEN - ASBURY

0727 to 1713 Clearance issued to Robert Lamb.
0636 to 2018 The section of line from Harvest switches 1115, 1116 and H.S. switch 1117 was cut out.
Crew is removing and installing a new bank # 1
Switchmen: Rocco Morgan

55KV LINE

ELECTRON HEIGHTS - STEVENSON

0742 to 1650 Clearance issued to Wade Jerke
0739 to 1926 The section of line from Electron Heights PCB #69 to pole switch #1307 was cut out.
Crew replacing old poles.
Switchmen: Rick Collins and Harold Smith.

TRANSMISSION STATION: CLEARANCE AND SYSTEM EVENTS:

230KV STATION

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SEDRO WOOLLEY – SEATTLE BOTHELL
0810 to 1126 Clearance issued to Lloyd Hofkamp.
0809 to 1134 Sedro Woolley PCB 734 cutout between its open main bus and line disconnects.
Crew wiring to new Sedro RTU.
Switchman: Lloyd Hofkamp

115KV STATION

SHUFFLETON WEST BUS
0717 to 1005 Clearance issued to Dan O'Rourke.
0716 to 1020 Shuffleton 115 kV west bus cutout between PCB's 263, 909, 1321 & 1308 main bus
disconnects to PCB 1310 east bus disconnect to west bus PT fuses.
Crew replacing PCB 1310 West Bus disconnect.
NOTE: Crew was unable to repair disconnect.
Switchman: Ken Walther

MARCH POINT 230/115KV BANK
4/6 to 1249 Clearance issued to Pat Darling
4/6 to 1818 March Point 230/115 kv transformer bank was cut out between PCB 3096 and PCB
3033 and its open station service fuses.
Crew upgrading the SEL package.

MARCH POINT BUS TIE PCB
4/1 to 1249 Clearance issued to Pat Darling.
4/1 to L/O March Point PCB 3082 was cut out between its open main and aux bus disconnects.
Crew is adding XFMR bank to the relay selector switch.

MARCH POINT 230/115KV BANK
4/21 to 1756 Clearance issued to Craig Conover
4/21 to 1818 March Point 230/115 kv transformer bank was cut out between PCB 3096 and PCB
3033 and its open station service fuses.
Crew upgrading the SEL package.

GENERATION CLEARANCES:

POWER SYSTEM REVISIONS:

RELAY TARGETS

MISC. SYSTEM EVENTS

4/17 to L/O **ANDERSON CANYON – BEVERLY PARK**
Skykomish switch 897 was opened by supervisory due to high line loading.
Notified Chelan PUD.

1210 to 1506 **SHELTON FAIRMOUNT # 1**
Quilcene Auto Scheme on manual by supervisory control. BPA maintaining Potlatch
XFMR disconnect.

CABLE STATION ALARMS

1228 **FLOOD CABLE STATION**
Oil level test alarm received by EMS from White.

INTRUSION ALARMS

ABNORMAL CONDITIONS

MISC. GENERATION EVENTS:

2230 to L/O **MANUAL TIME ERROR CORRECTION**
Correction x-West in effect. All systems to under generate by 0.02 HZ (59.98). Time
error reduced from +5.248 seconds to +0.xx seconds.

2032 **SPINNING RESERVES PURCHASED**
For HE 2100 PSE purchased 75 mw of spinning reserves from SCL.

1752 **VANCOUVER RELIABILITY COORDINATOR**
Contacted by VRCC about system problems in Skagit county and made him aware of
nature of the problem.
1835 VRCC inquired about amount of generation lost in Skagit County.
1906 Provided VRCC with system update
2045 Notified VRCC of restoration progress.

0501 **PSANI**
BPA issued a PSANI advisory for zone 2 for hour 7
0616 BPA initiated a PSANI event for hour 8

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0717 BPA initiated a PSANI event for hour 9
 0820 BPA initiated a PSANI event for hour 10

 PUGET'S THERMAL UNITS:

Colstrip Unit # 1	On line	Capable of full load. Since 4/22 unit at minimum load PSE share 70 mw. At 0450 the unit ramping to full PSE share. At 2350 ramping to minimum load. PSE share 70 mw.
Colstrip Unit # 2	On line	Capable of full load. Since 4/22 unit at minimum load PSE share 70 mw. At 0450 the unit ramping to full PSE share. At 2350 ramping to minimum load. PSE share 70 mw.
Colstrip Unit # 3	On line	Capable of full load. Since 4/22 unit at minimum load PSE share 50 mw. At 0008 unit tripped off line due to loss of auxiliary pump. At 0151 unit on line and ramping to minimum load. At 0450 the unit ramping to full PSE share. At 1250 PSE requesting 85 mw. At 1650 requesting full share At 2350 ramping to minimum load. PSE share 50 mw.
Colstrip Unit # 4	Off line	Since 3/27 unit off line annual maintenance. ETR 5/21

Whitehorn Unit # 2	Off line	Available but not 10 minute ready. Fast start exceeds stress limitations on turbine blades. Unit available for dual fuel.
Whitehorn Unit # 3	Off line	Available but not 10 minute ready. Fast start exceeds stress limitations on turbine blades. Unit available for dual fuel.

Fredonia Unit # 1	Off line	Unit available but not 10 minute ready.
Fredonia Unit # 2	Off line	4/20 to L/O unit unavailable for annual maintenance and transformer painting. ETR 5/4/09
Fredonia Unit # 3	Off line On	Available for 10 minute ready on gas or distillate. At 1940 unit on line for reliability purposes. At 2230 unit off line due to bad analyzer. Crew working on device. Unit is available. PSE has received permission from Pollution Board to run in an emergency.
Fredonia Unit # 4	Off line	Available for 10 minute ready on gas or distillate. At 1930 unit on line for reliability purposes.

Frederickson Unit # 1	Off line	Since 3/2/09 Distillate valves closed. GAS START ONLY until further notice. Operator can switch it manually to distillate if needed. Available for 10 minute ready.
Frederickson Unit # 2	Off line	Since 3/2/09 Distillate valves closed. GAS START ONLY until further notice. Operator can switch it manually to distillate if needed. Available for 10 minute ready.

Enserch Unit # 1	Off line	Unit available
Enserch Unit # 2	Off line	Unit available

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Enserch Unit # 3	Off line	Unit not available due to previous outage. ETR the week of the 20 th .
Enserch Unit # 4	Off line	Unit available

Sumas Unit # 1	Off line	Unit available
Sumas Unit # 2	Off line	Unit available

EPCOR Unit # G1	Off line	Unit available
EPCOR Unit # S1	Off line	Unit available

Goldendale Unit #1	Off line	Unit available
Goldendale Unit #2	Off line	Unit available

UPPER BAKER #1

4/20 Unit unavailable and OOS for annual maintenance. ETR 4/29/09

PUGET'S WIND TURBINE UNITS

INDEPENDENT POWER PRODUCERS:

MARCH POINT COGENERATION

1744 Plant tripped of line due to loss of all tie lines into Skagit County
1935 Power restored to station. Plant will be ramping back up slowly.

TRANSMISSION SCHEDULING AND SCHEDULING EVENTS:

0500 to 1400 SHAWNA INCH
1400 to 2400 SEAN TOLENTINO

NORTHERN INTERTIE (NI)

	Hour Ending	Total MW N>S	PSE MW N>S	Total MW S>N	PSE MW S>N
2311 on 4/22	0100	1200	180	1000	65
0002	0200 – 0500	1100	165	1050	72
0401	0600	1300	195	1000	65
0501	0700	1600	240	850	55
0638	0800	1650	248	850	55
0707	0900	1650	248	750	49
0817	1000	1600	240	900	58
0959	1200	1700	255	950	62
	1300 – 1400	1750	263	1050	72

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	1500	1850	278	1050	72
1345	1600	1850	278	1150	85
1450	1700	1850	278	1150	85
	1800	1850	278	1100	79
1718	1900	1550	233	650	42
1740	1900	1827	177	1095	78
1753	1900	1827	177	565	37
1809	2000	850	128	150	10
1910	2100	750	113	100	7
2004	2200	1150	173	350	23
2108	2300	1550	233	750	49
2208	2400	1400	210	850	55
2319 for 4/24	0100	950	143	1000	65

**No call for HE11

PASANI

	Hour Ending	
1718	1900	Pasani Advisory Load Zone 2
1809	2000	Pasani Advisory Load Zone 2
1910	2100	Pasani Advisory Load Zone 2
2017	2200	Pasani Advisory Load Zone 2
2108	2300	Pasani Advisory Load Zone 2
2218	2400	Pasani Advisory Load Zone 2

CALIFORNIA – OREGON INTERTIE (COI)

Hour Ending	Total MW N>S	PSE MW N>S	Total MW S>N	PSE MW S>N
0100 – 2400	Preschedule		Preschedule	