



NORTHWEST POWER POOL AREA  
ASSESSMENT OF RELIABILITY AND ADEQUACY  
2012 SUMMER OPERATING CONDITIONS

March 9, 2012

EXECUTIVE SUMMARY

In view of the present overall power conditions, including the forecasted water condition, the area represented by the Power Pool is estimating that it will be able to meet firm loads including the required operating reserve. Should any resources be lost to the area beyond the contingency reserve requirement and or loads are greater than expected as a result of extreme weather, the Power Pool area may have to look to alternatives which may include emergency measures to meet obligations.

DEMAND

The Northwest Power Pool (Power Pool) sub-reliability region has 20 Balancing Authorities and is comprised of all or major portions of the states of Washington; Oregon; Idaho; Wyoming; Montana; Nevada; and, Utah; a small portion of Northern California; and, the Canadian provinces of British Columbia and Alberta. The 2012 coincidental summer peak forecast of 58,000 MW is projected to occur during the last part of July and the early part of August. The 2012 coincidental summer peak is 1.0% greater than last summer's coincidental peak of 57,475 MW, which occurred on August 24, 2011. The 2011 summer peak occurred during a period of generally cooler than normal temperatures, later than expected, and was 1% less than the forecast. The projected planning margin is greater than 20%.

GENERATION

The installed Capacity for the Power Pool is over 90,000 MW, including 10,000 MW of wind growing to over 13,000 MW (none expected on peak). The deliverable capacity over a sustained period is dependent upon the availability of water. The Power Pool anticipates having enough deliverable capacity including its required operating reserve to meet the summer peak requirements.

TRANSMISSION

There are no concerns associated with transmission during the summer season.

OPERATIONAL ISSUES

Various Balancing Authorities have established operating protocols for variable generation to assure reliability is maintained. The Power Pool does not anticipate any reliability concerns or any other unusual operating conditions that could significantly affect reliability for the upcoming summer.



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INTRODUCTION

The Northwest Power Pool (Power Pool) area is one of the four sub-regions of the Western Electricity Coordinating Council (WECC) and is comprised of all or major portions of the states of Washington; Oregon; Idaho; Wyoming; Montana; Nevada; and, Utah; a small portion of Northern California; and, the Canadian provinces of British Columbia and Alberta. The Power Pool in collaboration with its members (20 Balancing Authorities (BA)) has conducted an assessment of reliability in response to the WECC Summer Assessment regarding the ability of the Power Pool to meet the load requirements during the summer 2012. Since the Power Pool is a large and diverse area of the Western Interconnection, its members face unique issues in the day-to-day coordinated operations of the system. The Power Pool area in aggregate is a winter peaking sub-region with a large amount of hydro resources.

Analyses indicate the Power Pool area will have adequate generation capacity and energy, required operating reserve (regulating reserve and contingency reserve), and available transmission to be able to meet the forecasted firm loads for the 2012 summer operations, assuming normal ambient temperature and normal weather conditions.

This assessment is valid for the Power Pool area as a whole; however, these overall results do not necessarily apply to all sub-areas (individual members, balancing authorities, states, and/or provinces) when assessed separately.

Report Details

➤ Historic Demand and Energy

The Northwest Power Pool 2011 coincidental summer peak of 57,475 MW occurred on August 24, 2011. The 2011 coincidental summer peak was 99% of the forecast; however, the coincidental peak occurred during below normal temperature conditions. In addition, the 2011 summer peak occurred much later than normal, approximately one month.

➤ Forecasted Demand and Energy

The economic recession that began in 2007 has had an impact on the Power Pool power usage and future forecasts. There has been no noticeable recovery to date. The 2012 summer peak forecast for the Power Pool area, as one single entity of 58,000 MW is based on normal weather, reflects the prevailing economic climate (stagnant), and has a 50% probability of not being exceeded.

The Power Pool area has approximately 600 MW of interruptible demand capability and load management. In addition, the load forecast incorporates any benefit (load reduction) associated with demand-side resources, not controlled by the individual utilities. Some of the entities within the Power Pool area have specific programs to manage peak issues during extreme conditions. Normally these programs are used to meet the entities' operating reserve requirements and have no discernable impacts on the projected Power Pool area peak load.



Under normal weather conditions, the Power Pool area does not anticipate dependence on imports from external areas during summer peak demand periods. However, if much lower than normal precipitation were to occur, it may be extremely advantageous to maximize the transfer capabilities from outside the Northwest Power Pool area to reduce reservoir drafts.

➤ Resource Assessment

Approximately 60% of the Power Pool resource capability is from hydro generation. The remaining generation is produced from conventional thermal plants and miscellaneous resources, such as non-utility owned gas-fired cogeneration or wind.

Hydro Capability

Northwest power planning is done by sub-area. Idaho, Nevada, Wyoming, Utah, British Columbia and Alberta individually optimize their resources to their demand. The Coordinated System (Oregon, Washington, northern Idaho, and western Montana) coordinates the operation of its hydro resources to serve its demand. The Coordinated System hydro operation is based on critical water planning assumptions (currently the 1936-1937 water year). Critical water in the Coordinated System equates to approximately 11,000 average megawatts of firm energy load carrying capability, when reservoirs start full. Under Average water year conditions, the additional non-firm energy available is approximately 3,000 average megawatts.

The current (3/8/2012) forecast for the January through July 2012 Volume Runoff (Columbia River flows) at The Dalles, Oregon is 99.6 million acre-feet (Maf), or 93% of the 30-year average.

The Coordinated System hydro reservoirs refilled to approximately 95% of the Energy Content Curve by July 31, 2011.

April through July

This period is the refill season when reservoirs store spring runoff. The water fueling associated with hydro powered resources can be difficult to manage because there are several competing purposes including but not limited to: current electric power generation, future (summer) electric power generation, flood control, biological opinion requirements resulting from the Endangered Species Act, as well as, special river operations for recreation, irrigation, navigation, and the refilling of the reservoirs each year. Any time precipitation levels are below normal, balancing these interests becomes even more difficult.

With the competition for the water, power operations for the 2012 may be difficult. The goal is to manage all the competing requirements while refilling the reservoirs to the highest extent possible.

Sustainable Hydro Capability

Operators of the hydro facilities maximize the hydrology throughout the year while assuring all the competing purposes are evaluated. Although available capacity margin at time of peak can be calculated to be greater than 20%, this can be misleading. Since hydro can be limited due to conditions (either lack of water or imposed restrictions), the expected sustainable capacity must be determined before establishing a representative capacity margin. In other words, the firm energy load carrying capability (FELCC) is the amount of energy that the system may be called



on to produce on a firm or guaranteed basis during actual operations. The FELCC is highly dependent upon the availability of water for hydro-electric generation.

The Power Pool has developed the expected sustainable capacity based on the aggregated information and estimates that the members have made with respect to their own hydro generation. Sustainable capacity is for periods at least greater than two-hours during daily peak periods assuming various conditions. This aggregated information yields a reduction in peak capacity for sustained capability of approximately 7,000 MW. This reduction is more relative to the Northwest in the winter; however, under summer extreme low water conditions, it impacts summer conditions, too.

#### Thermal Generation

No thermal plant or fuel problems are anticipated. To the extent that existing thermal resources are not scheduled for maintenance, thermal and other resources should be available as needed during the summer peak.

#### Thermal Generation and Hydro Generation Integration

The diversity of the Power Pool provides operational efficiencies. The northwest area of the Power Pool peaks in the winter whereas the eastern area peaks in the summer. Also, the eastern area of the Power Pool has the majority of the thermal- generation whereas the western area of the Power Pool has the majority of the hydro-generation. This allows the maximum integration of the resources to meet the Power Pool coincidental peak for both the winter and the summer. In addition, this allows the twenty BAs to maximize the use of the transmission while meeting firm customer load. The thermal generation in the east integrated with the hydro generation in the west, improves the total available firm energy and increases the Power Pool's area system reliability.

Having the flexibility to use hydro generation to meet peak and base load thermal generation to meet the firm energy requirements is predicated on availability of transmission; refer to the Transmission Operating Issues below.

#### Wind Generation

Several states have enacted renewable portfolio standards which will require some Power Pool members within the next few years to satisfy at least 20% of their load with energy generated from renewable resources. This may result in a significant increase in variable generation within the Power Pool area, creating new operational challenges which will have to be addressed soon and appropriate systems need to be in place. Some of the safety net programs such as balancing resources, contingency reserve, and under frequency load shedding will be re-evaluated for effectiveness.

The Power Pool area estimated installed wind generation capacity for 2012 summer season is approximately 10,000 MW, assuming zero contribution on-peak. During the NWPP summer peak, the experience to date, wind generation contribution to meeting the peak load has been zero.

The wind generation manufacturers' standard operating temperature for wind turbines range from -10° C to + 40° C (14° F to 104° F). During the summer peaking period, the temperature in the areas where the majority of the wind turbines are located can exceed the 104°F, leaving no capability from the wind generation during those periods.



In addition, there is a risk of over-generation in the spring and fall. When both the wind and hydro generation are both in high generation mode, and given the environmental constraints on dissolved gases in the river, there are times when generation may exceed load plus the ability to export.

The Power Pool has undertaken an effort to explore options to better address the over and under generation associated variable generation.

#### Biomass Generation

The installed capacity of biomass generation within the Power Pool area is 670 MW with expected on-peak amounts of 668 MW.

#### Other Generation

Within the Power Pool area there is an underground natural gas storage facility. This storage is located near many of the gas plants located in the Power Pool area, minimizing any effect that a regional gas problem may cause. In addition, one BA in the Power Pool area has an excess of 700 MW of generation that can be fired on diesel fuel.

#### External Resources

No external resources to the Power Pool area are assumed for the summer season.

#### Exports

An exchange with the California-Mexico area provides 300 MW firm export during the summer months.

### ➤ Transmission Assessment

#### Temporary Service Outages

The Midpoint Substation 230/345 kV transformer (T324) is scheduled for replacement with completion the last week of May 2012. This replacement will cause a reduction in east to west transfers on the Borah West and Hemmingway – Summer Lake 500 kV transmission line. Should the completion date slide on the Midpoint transformer replacement, then this may result in additional limitations on the transfer limits. Additional operating studies will be performed to determine the exact amount of limitation, considering all facts including the amount of Jim Bridger generation armed for tripping under the critical outage (Midpoint-Hemmingway-Summer Lake 500 kV transmission line).

Constrained paths within the Power Pool area are known and operating studies modeling these constraints have been performed. As a result of these studies operating procedures have been developed to assure safe and reliable operations.

#### System Operating Limits

The interregional transmission transfer capabilities based on System Operating limits (SOLs) as determined by the Northwest Operational Planning Group (NOPSG) and coordinated with the WECC's Reliability Coordinator for the 2012 summer season are being developed and will not be available until April 2012. Listed below are the approved 2011 summer SOLs:



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<b>Path Name</b>	<b>Path #</b>	<b>Rating (MW)</b>	<b>2011 Summer SOL (MW)</b>
Alberta-BC (E-W)	1	1000 (E-W)	450-1000 (E-W)
Alberta-BC (W-E)	1	1200 (W-E)	600-1200 (W-E)
NW-Canada (N-S)	3	3150 (N-S)	3150 (N-S)
NW-Canada (S-N)	3	2000 (S-N)	2000 (S-N)
West of Cascades North (E-W)	4	10,200 (E-W)	10,200 (E-W)
West of Cascades North (W-E)	4	10,200 (W-E)	10,200 (W-E)
West Of Cascades South (E-W)	5	7000 (E-W)	7000 (E-W)
West Of Cascades South (W-E)	5	7000 (W-E)	7000 (W-E)
West of Hatwai (E-W)	6	4277 (E-W)	4250 (E-W)
West of Hatwai (W-E)	6	NA (W-E)	NA (W-E)
Montana to Northwest (E-W)	8	2200 (E-W)	2200 (E-W)
Montana to Northwest (W-E)	8	1350 (W-E)	1156-1245 (W-E)
Idaho-Northwest (W-E)	14	1200 (W-E)	1090 (W-E)
Idaho-Northwest (E-W)	14	2400 (E-W)	2400 (E-W)
Sierra-Idaho (N-S)	16	500 (N-S)	500 (N-S)
Sierra-Idaho (S-N)	16	360 (S-N)	262 (S-N)
Borah-West (E-W)	17	2557 (E-W)	2557 (E-W)
Borah-West (W-E)	17	Not Rated	Not Rated
Idaho-Montana (N-S)	18	356 (N-S)	337 (N-S)
Idaho-Montana (S-N)	18	337 (S-N)	256 (S-N)
Bridger West (E-W)	19	2200 (E-W)	2200 (E-W)
Bridger West (W-E)	19	Not Rated	Not Rated
Path C (N-S)	20	1600 (N-S)	575-980 (N-S)
Path C (S-N)	20	1250 (S-N)	420-820 (S-N)
Sierra-PG&E (E-W)	24	160 (E-W)	50-105 (E-W)
Sierra-PG&E (W-E)	24	160 (W-E)	100 (W-E)
Sierra-Utah (E-W)	32	440 (E-W)	400 (E-W)
Sierra-Utah (W-E)	32	235 (W-E)	235 (W-E)

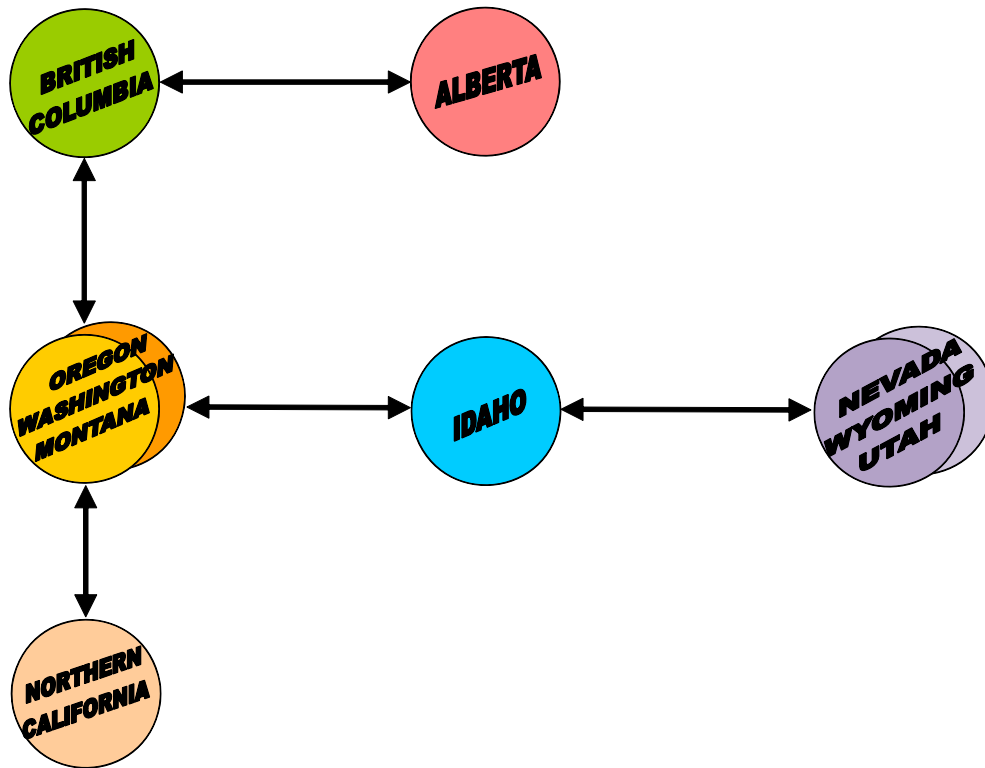


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<b>Path Name</b>	<b>Path #</b>	<b>Rating (MW)</b>	<b>2011 Summer SOL (MW)</b>
TOT 2C (N-S)	35	400 (N-S)	354 (N-S)
TOT 2C (S-N)	35	580 (S-N)	580 (S-N)
Brownlee East (W-E)	55	1915 (W-E)	1915 (W-E)
Brownlee East (E-W)	55	Not Rated	Not Rated
PDCI (N-S)	65	3100 (N-S)	2725-3100 (N-S)
PDCI (S-N)	65	3100 (S-N)	2200 (S-N)
COI + NW-Sierra (N-S)	66	4800 (N-S)	4220-4800 (N-S)
COI + NW-Sierra (S-N)	66	3675 (S-N)	3675 (S-N)
N of John Day (N-S)	73	Not Rated	7500-7800 (N-S)
N of John Day (S-N)	73	Not Rated	Not Rated
Hemingway-Summer Lake (E-W)	75	1500 (E-W)	1500 (E-W)
Hemingway-Summer Lake (W-E)	75	550 (W-E)	400 (W-E)
NW-Sierra (S-N)	76	300 (S-N)	300 (S-N)
NW-Sierra (N-S)	76	300 (N-S)	300 (N-S)
TOT 2B1 (N-S)	78	600 (N-S)	575 (N-S)
TOT 2B1 (S-N)	78	600 (S-N)	600 (S-N)
TOT 2B2 (N-S)	79	265 (N-S)	255 (N-S)
TOT 2B2 (S-N)	79	300 (N-S)	300 (N-S)

Transmission Operating Issues

The vast area of the Power Pool presents unique operating issues associated with transmission constraints. Recognizing these constraints may result in limitation of the Power Pool operating programs. The critical transmission constraints are known and result in the following zones within the Power Pool.



The Balancing Authorities constantly monitor critical paths to assure availability of capacity on the transmission system for flow of contingency reserve from one zone to another. Seven critical paths allow for the Power Pool to enjoy maximum reliability and efficiency. These critical paths are: Path 1 Alberta to British Columbia; Path 3 British Columbia to Oregon-Washington-Montana; Path 66 Oregon-Washington-Montana to Northern California; Path 14 and Path 55 Oregon-Washington-Montana to Idaho; Path 16 and Path 20 Idaho to Nevada-Wyoming-Utah. If any of these Paths become constrained, the ability to maximize reliability and efficiency is significantly reduced within the Power Pool area.

Depending upon the constraint, the above zones may become isolated and therefore dependent upon the resource within the zone to meet the reliability requirements. Operational constraints are seldom a limiting factor. However, when they are limiting, the operating programs are designed to assure reliability is met all the time, even under transmission constraints.

#### Outage Coordination

The NWPP coordinated outage (transmission) system (COS) was designed to assure that outages could be coordinated among all stakeholders (operators, maintenance personnel, transmission users, and operations planners) in an open process. This process had to assure that proper operating studies were accomplished and transmission impacts and limits known, to fulfill a requirement from the 1996 west coast disturbances that the system be operated only under studied conditions. The WECC Reliability Coordinator is involved in the outage coordination process and has direct access to the outage database.





### Monthly Coordination

The process requires NWPP members to designate significant facilities that, if out of service by itself or in conjunction with another outage, will impact system capabilities. The significant facilities are defined and updated annually by the NWPP members. The scheduled outage of these critical facilities is posted on a common database. All utilities post proposed significant outages on WECC's Coordinated Outages System (COS). Outages are to be submitted to the COS at least 45 days ahead of the month they are proposed to occur so they can be viewed by interested entities. The involved entities then facilitate the NWPP coordination of all these outages. Entities can comment on the preliminary impacts and schedules may be adjusted to maximize reliability and minimize market impacts. If coincidental outages cause too severe of an impact, the requesting utilities work together to adjust schedules accordingly. A final outage plan is posted with estimated path capabilities 30 days prior to the month in which the outages will occur. Detailed System Operating Limit studies are then performed and the limits for each affected path are posted at least 15 days prior to the outage.

Emergency outages can be requested outside these schedule guidelines. Emergency outages are coordinated among adjacent utilities to minimize system exposure. Utilities can use the COS to assure system topology is correct for next day studies. As transmission operators increase the amount of short term outages in addition to the significant outages, the WECC Reliability Coordinator (RC) will be able to access the WECC COS data base and use the final outage schedule in its real-time system analysis. This coordinated outage process has been very effective. The outage information is used by NWPP member utilities to perform system studies to maximize system reliability.

### Semi-annual planning - Long-Range Significant Outage Planning (LRSOP)

The NWPP staff facilitates outage meetings every six months with each utility's outage coordinator to discuss proposed longer term outages. Utilities discuss anticipated outages needed for time critical construction and periods where transmission capacity may need to be maximized. The outages are posted on the WECC COS and on the individual companies' OASIS sites.

Specific responsibilities of LRSOP include:

- Share outage information with all parties affected by outages of significant equipment (i.e., equipment that affects the transfer capability of rated paths). Information is shared two times each year for a minimum of a six-month period. The first meeting each year coordinates outages for July through December. The second meeting coordinates outages for January through June.
- Review the outage schedules to assure that needed outages can be reliably accomplished with minimal impact on critical transmission use.
- Outage coordinators are to post the outages on the Coordinated Outages System within the applicable timeframes.

### Next Day Operating Studies

Additional path curtailments may be required depending upon current system conditions and outages. These curtailment studies are performed by the individual path operators based on the outage schedule developed through the COS process. According to the COS process, these studies are performed at least 15 days prior to the outage. Individual path operators and



transmission owners may also perform updated next day studies to capture emergency outage requests and current system conditions such as generation dispatch to determine if the SOL studies and limits are still valid. Based on these studies, additional SOL curtailments may be made by the path operators. The modified SOL's are posted on the individual transmission owner's OASIS and the WECC RC is notified.

The WECC RC also performs system studies to ensure interconnected system reliability. The WECC RC performs real-time system thermal studies to evaluate current operating conditions across the entire Interconnection. When the WECC RC observes real-time reliability problems they contact the path operator to discuss the issue and work on a solution. The WECC RC will make a directive for action if there is an imminent reliability threat and the balancing authority does not eliminate the reliability issue within an appropriate time frame.

#### Voltage Stability

The WECC-1-CR System Performance Criteria, requirement WRS3 is used to plan adequate voltage stability margin in the Northwest Power Pool area as appropriate. Simulations are utilized to assure system performance is adequate and meets the required criteria.

#### ➤ Operating Issues

The Power Pool area does not anticipate any operating issues for the 2012 summer season.

#### ➤ Reliability Assessment Analysis

The Northwest Power Pool area does not have one explicit methodology for determining an adequacy margin.

Since no one method exists for the entire Northwest Power Pool area, we have elected to use the NERC's reserve margin analysis for the summer assessment. The 2012 Power Pool area generating capability is projected to be 87,000 MW, prior to adjusting for maintenance. Based on prior operating season, we have assumed zero contributions from wind resources during peak conditions. In determining planning margin for the current summer season one must further adjust for operating reserve requirement, which is approximately 3,500 MW. At this point, based on a load of 50% probability not to exceed, the planning margin is approximately 32%. However, the ability to sustain such margin over any length of time is highly dependent upon availability of fuel, such as water. Non-coordinated use of the water over time will cause substantial problems in the future.

A hotter than normal weather event for the entire Power Pool area will add approximately 3,000 MW of load while at the same time under extreme water restrictions the sustained hydro generation would reduce the capability by 7,000 MW. In addition, under a hot weather event, wind generation is expected to be zero. However, accounting for the weather event and the available generation, the Power Pool area will meet the peak load requirements with no additional margin required.

#### ➤ Contingency Reserve Sharing Procedure

As permitted by NERC and WECC criteria and standards, the NWPP has instituted a Reserve Sharing Program for contingency reserve. Those who participate in a reserve sharing group are better positioned to meet the NERC disturbance control standard because they have access to a deeper and more diverse pool of shared reserve resources. Also, an increase in efficiency is



obtained since the shared reserve obligation for the group as a whole is less than the sum of each participant's reserve obligation computed separately.

By sharing contingency reserve, the participants are entitled to use not only their own "internal" reserve resources, but to call on other participants for assistance if internal reserve does not fully cover a contingency. The reserve sharing process for the NWPP has been automated. A manual backup process is in place if communication links are down or the computer system for reserve sharing is not functioning correctly.

The NWPP is designated as a reserve sharing group (RSG) as provided under WECC Operating Reliability Criteria. Each member of the RSG submits its contingency reserve obligation (CRO) and most severe single contingency (MSSC) to a central computer. The combined member CRO must be larger than the RSG MSSC. If not, then each member's CRO is proportionally increased until this requirement is met. When any RSG member loses generation they have the right to call upon reserves from the other RSG members as long as they have first committed their own CRO. A request for contingency reserve must be sent within four minutes after the generation loss and the received contingency reserve can only be held for 60 minutes. A request is sent via the member's energy management system to the central computer. The central computer then distributes the request proportionally among members within the RSG. Each member may be called to provide reserve up to its CRO. Critical transmission paths are monitored in this process to ensure SOLs are not exceeded. If a transmission path SOL is exceeded the automated program redistributes the request among RSG members that are delivering reserve along non-congested paths. The WECC RC continuously monitors the adequacy of the RSG reserve obligation, MSSC, and the deployment of reserve. If a reserve request fails due to various reasons, backup procedures are in place to fully address the requirements.

➤ Reliability Coordinator

The Reliability Coordinator (RC) is responsible for monitoring, advising, and directing action when necessary, in order to preserve the reliability of transmission service between and within the interconnected systems of all balancing authorities within the Western Interconnection.

### STRATEGIC UNDERTAKINGS

➤ Adequacy Response Team

The Northwest has developed an Adequacy Response Process whereby a team addresses the area's ability to avoid a power emergency by promoting regional coordination and communications. Essential pieces of that effort include timely analyses of the power situation and communication of that information to all parties including but not limited to utility officials, elected officials and the general public.

➤ Emergency Response Team (ERT)

In the fall of 2000, the area developed an Emergency Response Process to address immediate power emergencies. The ERT remains in place and would be utilized in the event of an immediate emergency. The ERT would work with all parties in pursuing options to resolve the emergency including but not limited to load curtailment and or imports of additional power from other areas outside of the Power Pool.

The NWPP conducts NERC certified training twice a year (fall and spring) including a desk-top simulation associated with the Emergency Response Process.



➤ Lessons Learned and Recent Power Outages

The entities within the area that comprise the NWPP continuously review significant outages within the NWPP area and the Western Interconnection. This review is to understand the effects of such outages and obtained 'lessons learned' that may be implemented to prevent any future outage. The goal of the entities is to learn and, when necessary, make changes to assure a reliable interconnection now and into the future.

With respect to recent power outages, some entities have increased situational awareness while others continue to review outage reports to ascertain lessons learned in order to implement any necessary changes to assure a reliable operation.

LARGEST RISK

The largest risk facing Balancing Authorities within the Power Pool area is a significant weather event that would last over a five-day period and have temperatures at 10° F above normal. This type of an event would increase the overall Power Pool load by 3,000 MW. Any additional contingency during such a weather event could cause loss of local load.

CONCLUSIONS

In view of the present overall power conditions, including the forecasted water condition, the area represented by the Power Pool is estimating that it will be able to meet firm loads including the required operating reserve. Should any resources be lost to the area beyond the contingency reserve requirement and or loads are greater than expected as a result of extreme weather, the Power Pool area may have to look to alternatives which may include emergency measures to meet obligations.