EXHIBIT NO. ___(EMM-11HC)
DOCKET NO. UE-06___/UG-06__
2006 PSE GENERAL RATE CASE
WITNESS: ERIC M. MARKELL

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION,	
Complainant,	
v.	Docket No. UE-06 Docket No. UG-06
PUGET SOUND ENERGY, INC.,	
Respondent.	

TENTH EXHIBIT (HIGHLY CONFIDENTIAL) TO THE PREFILED DIRECT TESTIMONY OF ERIC M. MARKELL ON BEHALF OF PUGET SOUND ENERGY, INC.

REDACTED VERSION

FEBRUARY 15, 2006

PUGET SOUND ENERGY, INC.

MINUTES OF THE BOARD OF DIRECTORS' MEETING JULY 13, 2004

Pursuant to notice duly given on July 7, 2004 (a copy of which is filed with these minutes), a meeting of the Board of Directors of Puget Sound Energy was held in Puget Sound Energy's Board Room on the 12th Floor of the PSE Building, beginning at 10 a.m. on Tuesday, July 13, 2004.

The following Directors were present:

- D. P. Beighle
- C. W. Bingham
- P. J. Campbell
- C. W. Cole
- R. L. Dryden
- S. E. Frank
- T. Moriguchi
- K. P. Mortimer
- S. G. Narodick
- S. P. Reynolds

being more than a quorum.

Also present were:

Puget Energy and PSE Management

- J. W. Eldredge, Corporate Secretary and Chief Accounting Officer
- D. E. Gaines, Vice President Finance and Treasurer
- J. L. O'Connor, Vice President and General Counsel
- B. A. Valdman, Senior Vice President Finance and CFO

PSE Management

- K. J. Harris, Vice President Regulatory & Government Affairs
- E. M. Markell, Senior Vice President Energy Resources
- W. L. Robinett, Director Resource Planning

Perkins Coie

M. A. Quehrn

Mr. Beighle presided and Mr. Eldredge kept the records of the meeting.

Harris advised the Board that PSE had briefed the Washington Commission on the amendment before entering into the contract revision and that the Commission was in agreement with the amendment.

PSE RATE CASE UPDATE

Mr. Beighle then asked Ms. Harris to give the Board an update on PSE rate case matters.

Ms. Harris then reviewed with the Board an order issued on May 19, 2004 by the

Washington Commission establishing the intervening parties and the Commission's

procedural schedule for PSE's pending electric and gas general tariff rate cases filed with
the Commission on April 5, 2004. A copy of the Commission's order is filed with the
minutes of this meeting.

Ms. Harris then discussed orders issued by the Washington Commission during the second quarter of 2004 to PSE in connection with its power cost only rate case.

PSE ENERGY RESOURCES ACQUISITION UPDATE

Mr. Beighle then asked Mr. Robinett, PSE Director Resource Planning, to join the meeting and asked Mr. Markell to give the Board an update on PSE energy resource acquisition matters. Mr. Markell then reviewed with the Board a report he had prepared covering an update on PSE's strategies to obtain new electric energy resources through its "All-Source" request for power resource proposals and its wind energy resource request for proposals and the PSE analysis performed to date on resource acquisition alternatives. A copy of Mr. Markell's report was furnished the Board in advance of this meeting and is filed with the minutes. After Mr. Markell's report, Mr. Robinett left the meeting.

Resource Acquisition Update to Board of Directors

Senior Vice President Energy Resources July 13, 2004 Eric M. Markell

Resource Acquisition Update Overview

Electric Resource Strategy

RFP Process & Analysis

Key Analytical Updates

Implications for Resource Strategy

Stage 2 Process & Analysis

Short List Review

RES - Hopkins Ridge

Zilkha - Wild Horse

ORMAT - Sumas Recovered Heat

- 10-yr PPA - 22-yr PPA

4

APS - 2-yr PPA

Other Potential Resources

Next Steps

TEXT IN BOX IS HIGHLY CONFIDENTIAL

Electric Resource Strategy 2003 Least Cost Plan

Published April 2003

Diversified mix of resources

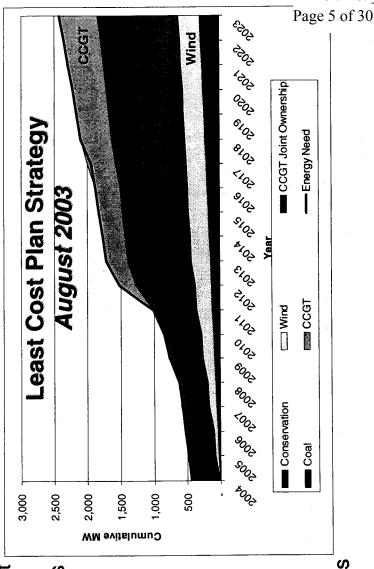
10% renewable resources target "B2" Energy Standard: add resources to meet energy needs in highest deficit month

Updated August 2003

Continuous process of contemporaneous analysis & documentation

Included comprehensive assessment of available conservation resources

Fully integrated portfolio analysis that evaluated conservation & supply resources on equal basis



"B2" Planning Standard Energy Need Electric Resource Strategy

Highest Deficit Month for 2005 - 08

595 aMW 117 aMW

Less Conservation Savings

123 aMW

(125 MW Capability)

Frederickson 1 Acquisition

355 aMW

Remaining Need

Note: All calculations based on "B2" planning standard in 2003 LCP

Electric Resource Strategy Timeline

August 2003:

with LCP, as first step to meet 355 aMW need Filed draft Wind RFP, consistent

November 2003:

WUTC approved Wind RFP

Issued Wind RFP

Filed draft All-Source RFP

December 2003:

Filed draft Energy Efficiency RFP

January 2004:

WUTC approved All-Source & Energy Efficiency RFPs

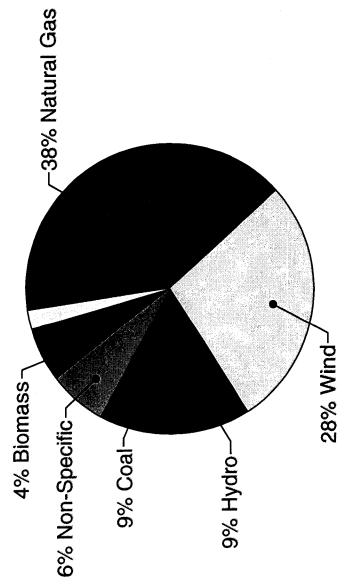
February 2004:

Issued All-Source & Energy Efficiency RFPs

RFP Process & Analysis Summary of Proposals

Wind RFP & All Source RFP

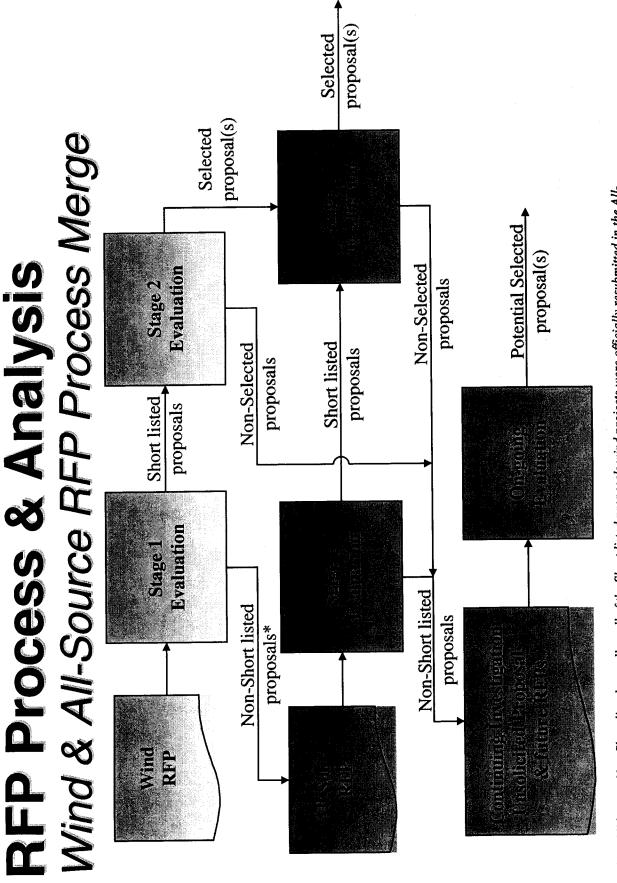
- 48 Proposals with options for PPA, Ownership and/or Hybrid
- 40 Owners/Developers



Summary is based on initial draft figures from bid opening. All figures are not final and subject to change and revision at any future date.

■ 18 - Natural Gas

■ 13 - Wind
■ 1 - Hydro
■ 4 - Coal
■ 3 - Non-Specific
■ 2 - Biomass
■ 1 - Cogeneration
□ 1 - Geothermal
■ 1 - Recovered Heat
■ 1 - Recovered Heat
34 - Development
12 - Operating
2 - Suspended



** - Non-Short listed all-source proposals and Non-Selected proposals may be revised on an on-going basis to better meet PSE's - All but two Non-Short listed as well as all of the Short listed proposals wind projects were officially resubmitted in the All-Source, some with revisions.

Least Cost Planning needs and strategies.

Highly Confidential per

Short listed proposals were identified through the integrated assessment of quantitative and qualitative criteria (including Stage 1: Short List Selection

RFP Process & Analysis

Short listed proposals ranged from \$42 to \$48 /MWh potential risks) that led to natural groupings

seasonal on-peak PPA merited further analysis

The diversified mix of proposals selected to the short list include:

- (1) Alternate Fuel (recovered heat from gas compressors)
 - (2) Coal PPAs (10-yr & 2-yr terms)
- PPA (22-yr seasonal on-peak)
- (3) Wind Projects (3 of 4 from Wind RFP)

Given forecasted high natural gas prices, no CCGT proposals were selected to the short list

REDACTED

Stage 1: Continuing Investigation List RFP Process & Analysis

- Stage 1 analysis shows some proposals as attractive but currently face obstacles
- proposals uneconomic as compared to other short listed resources Current and forward natural gas prices render the gas-fired CCGT

- Will be analyzed through the Portfolio Screening Model (PSM)
- Continue to monitor the status of proposals as Stage 2 progresses
- Depending on negotiations with short list, it's possible "continuing investigation list" proposals could advance

Highly Confidential per WAC 480-07-160

1: Short List Evaluation Summary RFP Process & Analysis

PROPOSAL -					ASM8	STAGETE	VALAU	STAGE 1 EVALAUTION RATINGS	98			
Owner/Developer Project Name	Location	Status	WW		Cost*	Buaness/ Commercial	Fuel Supply	Transmission Technical	Technical	Real	Endromental	Community
Principle of the princi	Jet. Metros Maria											
APS - 2-yr PPA	Centralia, WA	Operating	82	Jan-05		HIGH	нен	VERY HIGH	HIGH	N/A	MEDIUM-HIGH	HIGH
		Operating		Jan-05		HIGH	HIGH	VERY HIGH	N/A	N/A	MEDIUM-HIGH	нісн
		Operating / Development		Jan-05		НІСН	N/A	MEDIUM	N/A	N/A	MEDIUM-HIGH	N/A
ALTERNATIC FUEL PARTY												
ORMAT - Sumas Recovered Heat	Sumas, WA	Development	4.5	Apr-06		MEDIUM	нвн	LOW-MEDIUM	HIGH	мот	нвн	нвн
WIND												
RES - Hopkins Ridge	Columbia Co, WA	Development	150	Dec-05		HIGH	MEDIUM	ПОМ	HIGH	MEDIUM	HIGH	HIGH
Zikha - Wild Horse	Kittitas Co, WA	Development	150	Apr-06		MEDIUM	MEDIUM	HIGH	MEDIUM	MEDIUM	HIGH	HIGH
		Development		Dec-05		HIGH	MEDIUM	MEDIUM-HIGH	MEDIUM	МЕDIUМ	HIGH	MEDIUM

REDACTED

TEXT IN BOX IS HIGHLY CONFIDENTIAL

*Using Mid-year MACRS instead of 1Q MACRS to compare with non-wind bids.

*PTC error in year 10 corrected.

**Based on \$59 flat price.

Resource Planning Assumptions Key Analytical Updates

Higher natural gas price forecast

Updated wholesale electric price forecast

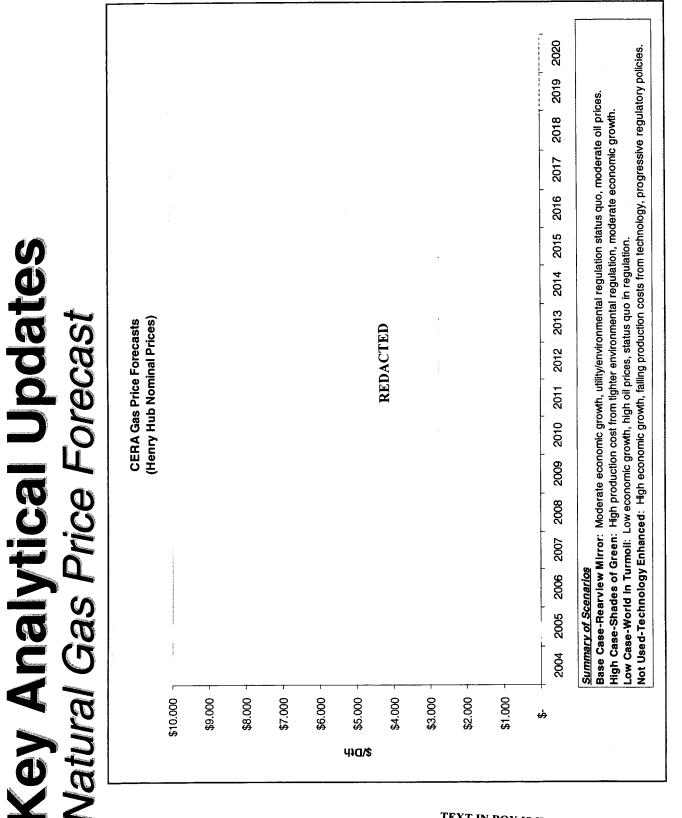
Increased imputed debt risk factor per S&P ŠŠ.

Higher generic technology costs reflective of RFP proposals

Electric and natural gas price volatility in modeling refined to better reflect market

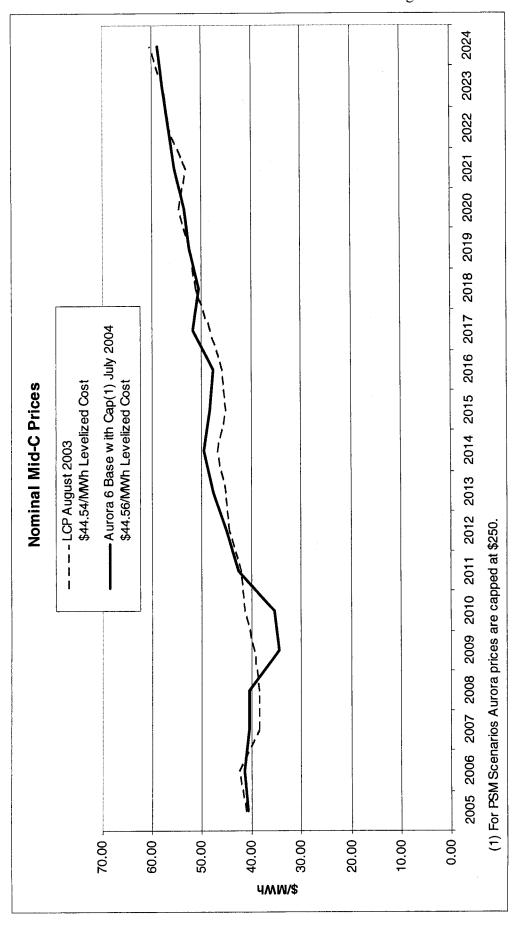
Updating self-build option

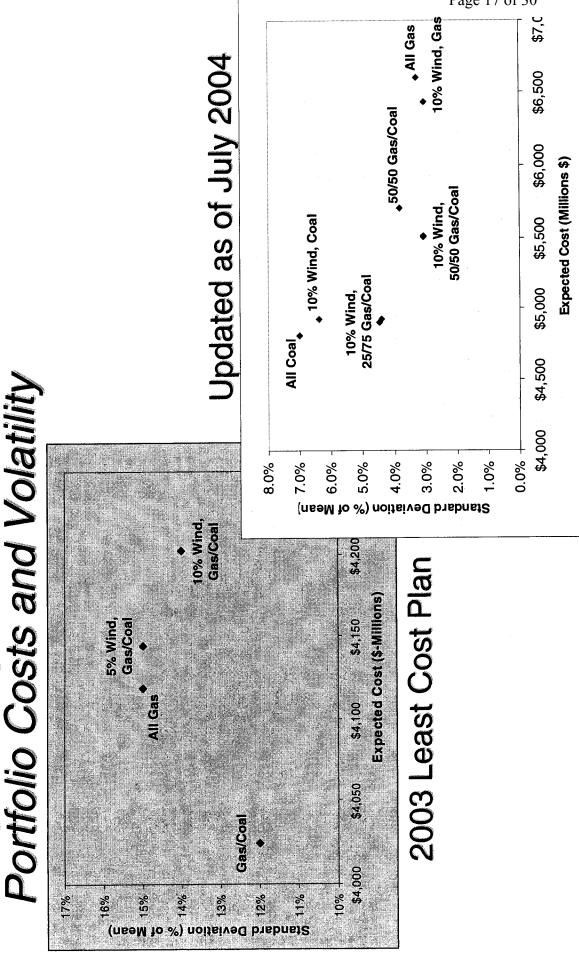
HIGHLY CONFIDENTIAL PER WAC 480-07-160



TEXT IN BOX IS HIGHLY CONFIDENTIAL

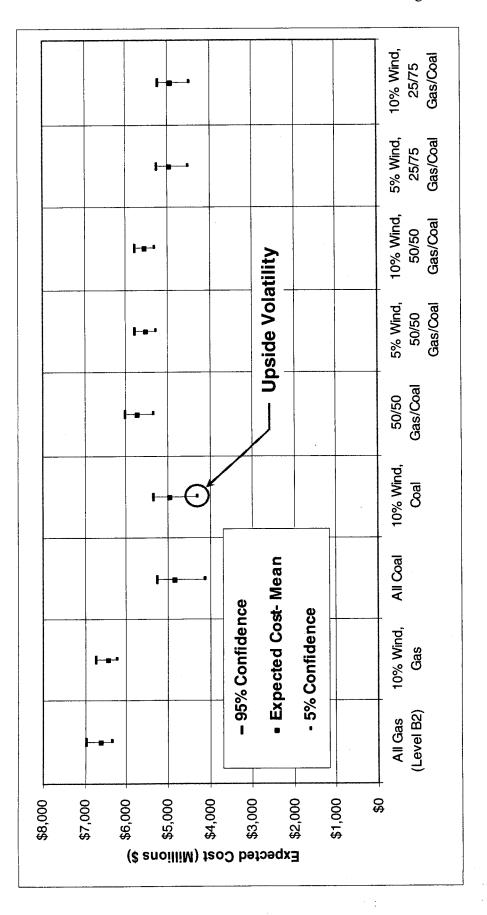
Key Analytical Updates Electric Power Price Forecast





Key Analytical Updates

Key Analytical Updates
Portfolio Costs and Volatility (cont.)

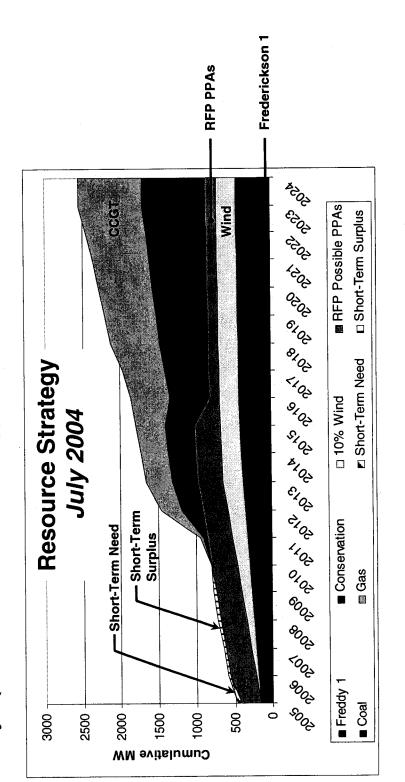


Implications for Resource Strategy

Updated assumptions and portfolio analysis suggest potentia modifications to resource strategy:

- Consider increasing renewable acquisition goal and target
- Less reliance on natural gas-fired generation
- Increased interest in coal-fired generation

Formally update resource strategy in 2005 LCP process



Stage 2 Process & Analysis Next Steps

Update Portfolio Screening Model (PSM) and assumptions to include specific project information

Continue due diligence of short listed proposals

Continue negotiations and discussions including PPA credit issues

Revisit "continuing investigation list" proposals

- Representative gas-fired CCGT proposals will be analyzed in PSM
- indicate CCGTs comprise all or a portion of the least cost portfolio in Gas-fired CCGT proposals may be reconsidered if PSM analysis near term

Highly Confidential per WAC 480-07-160

Short-List: Ownership **Project**

Location: based on GE 1.5MW WTG

Best Case COD - December 200

Best Case COD - December 2005

REDACTED

No Community Opposition

Permitting via

Proces

Likely Opposition Appeal

Appeals venues to both Superior Court and Growth Management Hearings Board TEXT IN BOX IS HIGHLY CONFIDENTIAL

Exhibit No. (EMM-11HC)

Page 22 of 30

Highly Confidential per WAC 480-07-160



Best Case COD - December 2005

Short-List: Ownership

RES - Hopkins Ridge Project

Difficult interconnection and transmission issues

West of McNary

Enjoys community support

PacifiCorp system may make project Potential direct connection to more attractive to them

REDACTED

TEXT IN BOX IS HIGHLY CONFIDENTIAL

Page 23 of 30

Zilkha - Wild Horse

Short-List: Ownership

Location: Kittitas County, WA

150 MW based on GE 1.5MW WTG

Best Case COD - April 2006

Best Case COD - April 2006 Organized Community Opposition Upgrades to IP line required New Columbia River crossing and connection to Wanapum Substation

Permitting via Washington EFSEC

Preemption request likely based on KV project

Likely County Appeal;

TEXT IN BOX IS HIGHLY CONFIDENTIAL

Highly Confidential per WAC 480-07-160

ORMAT - Sumas Recovered Heat Project Short-List: Ownership

Location: Sumas, WA

4.5 MW Net

Recovered heat from gas turbine using Organic Rankine Cycle (ORC) technology

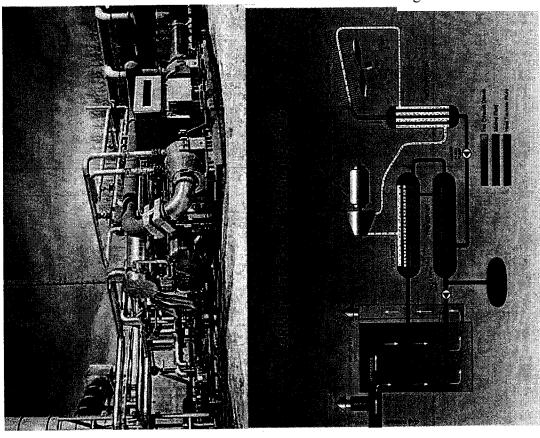
Host: Northwest Pipeline Sumas

Compressor Station

Best Case COD: April 2006

Extension of existing PSE transmission facilities to Sumas

Permitting via amendments to existing site permits



Highly Confidential per WAC 480-07-160

100 MW (2005); 200 MW (2006-15)

Firm Energy Contingent Upon Unit Availability

10-year + 3 months (Jan 2005 to Mar 2015)

Short-List: PPA

Hourly Quantity:

10

Product:

Term:

All Hours

Schedule:

W.

Price:

MWh

REDACTED

WSPP - Liquidated damages for any event or default

Pending

Credit Terms:

Event of Default:

Delivery Point:

Pending

Due Diligence:

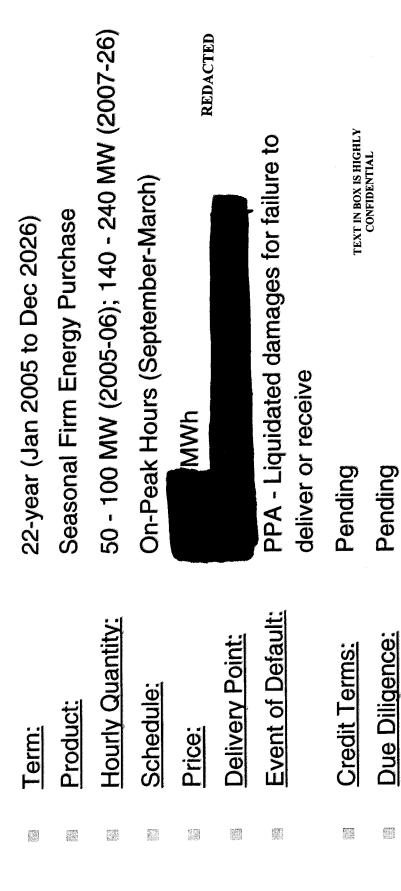
TEXT IN BOX IS HIGHLY CONFIDENTIAL

Note: Execution not contingent upon WUTC review and approval

WAC 480-07-160

Stage 1 analysis does not adequately capture the value of seasonal on-peak offer. Recommended to short list based on its expected cost to serve load. Will continue analysis through Stage 2.

Short-List: PPA



Execution not contingent upon WUTC review and approval

Highly Confidential per WÁC 480-07-160

WSPP - Liquidated damages for any event or default

Arizona Public Service Company (APS)

Short-List: PPA

Executed PPA on June 25, 2004 following June 2, 2004 RMC approval

2-year (Jan 2005 to Dec 2006)

Term:

Product:

Firm Energy

85 MW

Hour Quantity:

Price:

Delivery Point:

PSE System / CW Paul

DJ Mid-C* less

Event of Default:

Credit Terms:

Benefits:

None

1) Provides needed baseload energy

2) Below market resource

3) Provides reliability

4) Reduced Mid-C wheeling/losses

TEXT IN BOX IS HIGHLY CONFIDENTIAL

5) Index can be swapped for fixed financial to convert to a fixed price product

6) Minimal credit exposure with index product

Potential bridge to new resource(s)

*Dow Jones Mid-Columbia Electricity Price Index for on and off peak hours

Highly Confidential per WAC 480-07-160

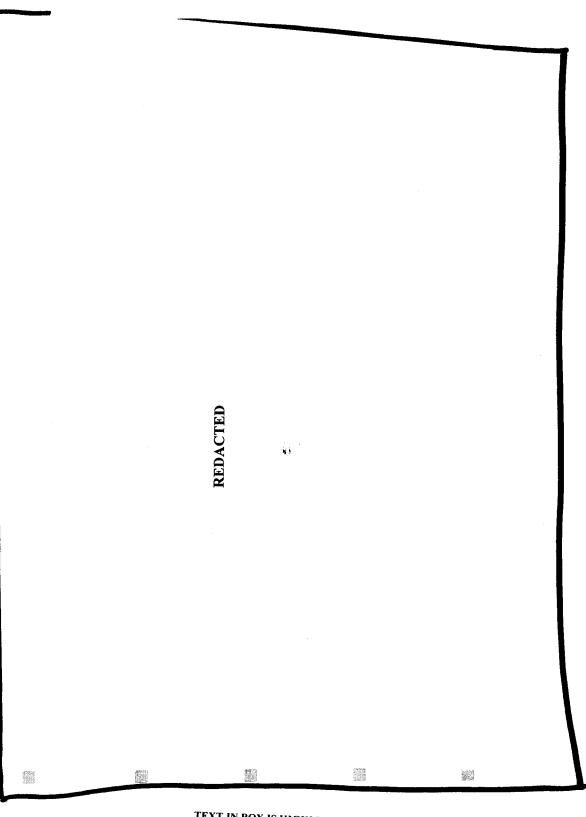
Other Potential Resources Continuing Investigation List

ASMIB Status MW COD Cost	Development Oct-05	Development Dec-05	Development Dec-05	Development late 2008	Operating Aug-02	Development Dec-05	Suspended Nov-05	Suspended late 2005	Development Sep-07	Operating Oct-03		Development May-06	
PROPOSAL Owner/Developer Project Name WIND	100% Ownership	30-yr PPA + 50% Ownership	100% Ownership	00% Ownership		0.2% Ownership	00% Ownership	00% Ownership	'0% Ownership	00% Ownership	Madanchana	Joint Venture w/ PSE	

TEXT IN BOX IS HIGHLY CONFIDENTIAL

REDACTED

Other Potential Resources Post 2008 - Coal-fired Generation fired Generation



Next Steps

Complete Portfolio Screening Model (PSM) runs

Complete RFP Stage 2 Analysis

Execute LOI with best alternative(s) from short list selection

Resolve credit issues and finalize commercial terms with selected power purchase agreement(s)

Consider approach to coal project

- Special screening RFP
- Regional consortium