

EXHIBIT NO. ____ (RG-4HC)
DOCKET NO. UE-07 ____
2007 PSE PCORC
WITNESS: ROGER GARRATT

BEFORE THE
WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,

Complainant,

v.

PUGET SOUND ENERGY, INC.,

Respondent.

Docket No. UE-07 ____

THIRD EXHIBIT (HIGHLY CONFIDENTIAL) TO THE
PREFILED DIRECT TESTIMONY OF
ROGER GARRATT
ON BEHALF OF PUGET SOUND ENERGY, INC.

REDACTED
VERSION

MARCH 20, 2007

2005 RFP
Phase 1 Capacity Gas Ratings

	Energy		Evaluation Criteria												PHASE II (Y/N)		
	Project Name	MW	Levelized Cost (\$/MWh)	Portfolio Benefit	Unit Metric	B&C	Trans	Tech	Power Supply	Enviro	Legal	Real Estate	Insurance	Plant Ops		Power Supply Ops	Credit
504	Redacted			621	0.036												
521				21,110	0.072												
529				(2,763)	(0.023)												
541				(77,712)	(0.306)												
542				(75,993)	(0.305)												
Redacted																	

KEY
 High = More Favorable / Less Risks
 Med = Favorable
 Low = Less Favorable / More Risks

Text in box is Highly Confidential

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Per WAC 480-07-160

Business Commercial

Code	Fuel Type	Project Name	Owner/Developer	Location	Value	B & C Rating	Business and Commercial Evaluation Criteria
504	NG						Redacted
521	NG						
529	PPA						
541	NG						
542	NG						

KEY

HIGH

MED

LOW

= More Favorable / Less Risks

= Favorable

= Less Favorable / More Risks

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Transmission

Code	File Type	Project Name	Owner/Developer	Location	DOB	Trans Rating	Transmission Criteria
504	NG	Redacted					
521	NG						
529	PPA						
541	NG						
542	NG						

KEY	= More Favorable / Less Risks
HIGH	= Favorable
MED	
LOW	= Less Favorable / More Risks

High Transmission available, No major problems, doable, Mature & Ready
High-Med The same as High but needs confirmation on the COD
Med The same as High but with possible multiple wheels or one or more factors uncertain
Med-Low Regional issues unknown, Possible some transmission limitations, trans. technology unknown
Low Risky & Not doable, Major problems, No transmission available, trans. technology unknown, & regional issues unknown

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Technical

Code	State / Proj	Project Name	Ownership	Status	Location	Avg. Cost	Tech Rating	Technical Comments	Technical Criteria												
									Timing	Operational Feasibility	Fit with PGE's Existing Portfolio	Resource Mix / Diversity	Resource Cost	Stable and Schedule	Resource Flexibility and Stability	Resource Technology	Project Risk	Enviro/Permitting Risk	Ability to Deliver		
504	NG								Redacted												
521	NG																				
529	PPA																				
541	NG																				
542	NG																				

KEY

= More Favorable / Less Risk

HIGH = Favorable

MED = More Risk

LOW = Less Risk

KEY
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LOW = Less Favorable / More Risk

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Fuel Supply

Code	Fuel Type	Project Name	Owner/Developer	Location	Size (ac)	Fuel Supply Rating	Fuel Supply Evaluation Criteria
504	NG	Redacted					
521	NG						
529	PPA						
541	NG						
542	NG						

KEY

HIGH = More Favorable / Less Risks

MED = Favorable

LOW = Less Favorable / More Risks

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Environmental

Code	Fuel Type	Project Name	Country	Region	Sub-Region	Enviro Rating	Environmental Evaluation Criteria
504	NG						Redacted
521	NG						
529	PPA						
541	NG						
542	NG						

KEY

= More Favorable / Less Risks

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LOW = Less Favorable / More Risks

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Legal

Code	Item	Item	Item	Item	Item	Item	Legal Rating	Legal Evaluation Criteria
504	NG							
521	NG							
529	PPA							
541	NG							
542	NG							

Redacted

KEY	
HIGH	= More Favorable / Less Risks
MED	= Favorable
LOW	= Less Favorable / More Risks

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Real Estate

Code	Real Estate Type	Project Name	Ownership	Location	City	County	Real Estate Rating	Real Estate Evaluation Criteria
504	NG							
521	NG							
529	PPA							
541	NG							
542	NG							

Redacted

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Insurance

Code	Ins Rating	Insurance Evaluation Criteria
504	NG	Redacted
521	NG	
529	PPA	
541	NG	
542	NG	

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LOW = Less Favorable / More Risks

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Plant Operations

Code	Site Type	Location	County	Plant Ops Rating	Plant Operations Evaluation Criteria
504	NG				Redacted
521	NG				
529	PPA				
541	NG				
542	NG				
T					

KEY

= More Favorable / Less Risks

HIGH = Favorable

MED = Less Favorable / More Risks

LOW

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Power Supply Operations

Code	Part Type	Object	Value	Unit	PSO Rating	Power Supply Operations Evaluation Criteria
504	NG					
521	NG					
529	PPA					
541	NG					
542	NG					

Redacted

KEY
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Credit

Code	File Type	Project Name	County	Location	City	PSO Rating	Power Supply Operations Evaluation Criteria
504	NG	Redacted					
521	NG						
529	PPA						
541	NG						
542	NG						

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2005 RFP
Phase 1 Coal IGCC Ratings

COAL	Project Name	Capacity MW	Plant/Utility Levelized \$/MWh	Portfolio Benefit	Unit Metrics	ERC	Trans	Tech	Fuel Supply	Environ	Legal	Real Estate	Insurance	Plant Ops	Power Supply Ops	PHASE II (Y/N)
503-a	Redacted			493.916	0.134											
506				217.528	0.137											
(a&b)				125.704	0.077											
520				41.986	0.056											
(a-c)				(40.251)	(0.146)											
523				17.877	0.067											
(a-c)				305.525	0.137											
528				(541.546)	(0.182)											
(a-c)				(411.539)	(0.145)											
555				109.363	0.051											
				(901.458)	(0.205)											
				(759.960)	(0.261)											
IGCC	Redacted			Still under review. Cannot provide numbers.												
543	Redacted			(217.712)	-0.174											

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Business Commercial

Code	Coal Type	Projections	Operating	Leasehold	Other	B&C Lead	B/C Rating	Business/Commercial Evaluation Criteria
503-a	Coal							
506	Coal							
520(a-c)	Coal							
523(a-c)	Coal							
528(a-c)	Coal							
555	Coal							
543	IGCC							

Redacted

KEY	= More Favorable / Less Risks
HIGH	= Favorable
MED	= Less Favorable / More Risks
LOW	

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Transmission

Score	Type	Project Name	Owner/Developer	Transmission	Trans Rating	Transmission Evaluation Criteria
503-a	Coal	Redacted				
506	Coal					
520(a-c)	Coal					
523(a-c)	Coal					
528(a-c)	Coal					
555	Coal					
543	IGCC					

KEY	= More Favorable / Less Risks
HIGH	= Favorable
MED	= Less Favorable / More Risks
LOW	

Transmission Evaluation Criteria:

High Transmission available, No major problems, doable, Mature & Ready
 High-Med The same as High but needs confirmation on the COD
 Med The same as High but with possible multiple wheels or one or more factors uncertain
 Med-Low Regional issues unknown, Possible some transmission limitations, trans. technology unknown
 Low Risk & Not doable, Major problems, No transmission available, trans. technology unknown, & regional issues unknown

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Technical

Fuel Code	Type	Project Name	Contract Developer	Location	MW	CO2	Tech Rating	Technical Comments	Technical Evaluation Criteria								Ability to Deliver			
									Timing	Operational Flexibility	Resource Technology Risk	Gas Mix/ Diversity	Fit with PSE's Existing Portfolio	Resource Cost	Status and Schedule	Resource Flexibility and Stability		Project Risk	Environmental Risk	
503-a	Coal								Redacted											
506	Coal																			
520(a-c)	Coal																			
523(a-c)	Coal																			
528(a-c)	Coal																			

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Technical

Code	Site Type	Project Name	Owner/Developer	Location	Why?	CO2	Tech Rating	Technical Comments	Timing	Operational Flexibility	Resource Technology Risk	Res Mix/ Diversity	Fit with PSE's Existing Portfolio	Resource Cost	Status and Schedule	Resource Flexibility and Stability	Project Risk	Environmental Risk	Ability to Deliver
555	Coal																		
543	IGCC																		

Redacted

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Fuel Supply

Code	Fuel Type	Project Name	Ownership Available	Location	MW	Scop	Fuel Supply Rating	Fuel Supply Evaluation Criteria
503-a	Coal							
506	Coal							
520(a-c)	Coal							
523(a-c)	Coal							
528(a-c)	Coal							
555	Coal							
543	IGCC							

Redacted

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Environmental

Code	Project Name	Low	Enviro	Environmental Evaluation Criteria
503-a	Coal			
506	Coal			
520(a-c)	Coal			
523(a-c)	Coal			
528(a-c)	Coal			
555	Coal			
543	IGCC			

Redacted

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= More Favorable / Less Risks
HIGH = Favorable
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LOW

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Legal

Code	Final Type	Project Name	Owned by	Location	State	CCB	Legal Rating	Legal Evaluation Criteria
503-a	Coal							
506	Coal							
520(a-c)	Coal							
523(a-c)	Coal							
528(a-c)	Coal							
555	Coal							
543	IGCC							

Redacted

KEY	= More Favorable / Less Risks
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LOW	

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Real Estate

Code	Real Type	Project Name	County	City	State	Real Est Rating	Real Estate Evaluation Criteria
503-a	Coal						
506	Coal						
520(a-c)	Coal						
523(a-c)	Coal						
528(a-c)	Coal						
555	Coal						
543	IGCC						

Redacted

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LOW	

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Insurance

Code	Project Name	County	City	Ins Rating	Insurance Evaluation Criteria
503-a	Coal				Redacted
506	Coal				
520(a-c)	Coal				
523(a-c)	Coal				
528(a-c)	Coal				
555	Coal				
543	IGCO				

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Plant Operations

Code	Fuel Type	Project Name	Owner/Developer	Location	NW	EGP	Plant Ops Rating	Plant Operations Evaluation Criteria
503-a	Coal							
506	Coal							
520(a-c)	Coal							
523(a-c)	Coal							
528(a-c)	Coal							
555	Coal							
543	IGCC							

Redacted

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Power Supply Operations

Code	Unit	Project Name	Owner/ Developer	Coal	Oil	Nat Gas	PS Ops Rating	Power Supply Ops Evaluation Criteria
503-a	Coal	Redacted						
506	Coal							
520(a-c)	Coal							
523(a-c)	Coal							
528(a-c)	Coal							
555	Coal							
543	IGCC							

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2005 RFP
Phase 1 Gas Ratings

Project Name	Energy MW	Levelized Cost (\$/MWh)	Portfolio Benefit	Unit Metrics	CO2e	Trans	Tech	Evaluation Criteria					Power Supply Ops	PHASE II (Y/N)
								Flt Supply	Enviro	Legal	Real Estate	Insurance	Plant Ops	
500 (a&b)			129,545	0.067										N
501 (a-d)			353,965	0.156										Y
503-b			183,858	272										N
504			168,747	307										N
505-a			81,330	238										N
509 (a&b)			73,723	232										N
515 (a&b)			273,042	0.110										Y
516			6,527	0.406										N
517			219,813	0.103										N
519			328,668	0.172										N
521			206,893	0.118										N
525(a-c)			146,177	0.146										Y
526(a-c)			171,629	0.244										N
540			3,755	0.021										N
541														N
542														N
546 (a&b)			21,782	0.075										N
			188,188	237										N
			183,620	240										N
			34,488	0.53										N
			104,275	0.142										N
			(3,802)	(0.011)										N
			26,342	0.040										N
			(2,584)	(0.009)										N
			(6,575)	(0.021)										N
			241	0.001										N
			(82,346)	(0.134)										N
			154,195	0.152										N

Redacted

Redacted

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2005 RFP
Phase 1 Gas Ratings

	Project Name	Energy		Levelized Cost (\$/MWh)	Portfolio Benefit (\$/MWh)	Evaluation Criteria										PHASE II (Y/N)
		MW	Unit MWh			B&C	Trans	Tech	Fuel Supply	Enviro	Legal	Real Estate	Insurance	Plant Ops	Power Supply Ops	
552	Goldenale Energy Center	277	0.254	Med	High-Med	High	Med-High	High	High	Med-High	Med-High	Med	High	Y		

Redacted

KEY	= More Favorable / Less Risks
High	= Favorable
Med	= Less Favorable / More Risks
Low	

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Per WAC 480-07-160

Business Commercial

Code	Final Type	Project Name	Owner/Developer	Location	MO	COB	B & C Rating	Business and Commercial Evaluation Criteria
500(a&b)	NG							
501(a-d)	NG							
503-b	NG							
504	NG							
505-a	NG							
509(a&b)	NG							
515(a&b)	NG							
516	NG							
517	NG							
521	NG							
525(a-c)	NG							
526(a-c)	NG							

Redacted

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Business Commercial

540	LFG	Redacted					Goldendare Energy Center	Calpine	Goldendale, WA	277	Sep-04	Med	+ See results from previous evaluation process - Calpine bankruptcy
541	NG												
542	NG												
546(a&b)	NG												
552	CCCT												

KEY

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MED = Favorable

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Transmission

Code	File Type	Project Name	Owner/Developer	Location	Env	DOB	Trans Rating	Transmission Criteria
500(a&b)	NG	Redacted						
501(a-d)	NG							
503-b	NG							
504	NG							
505-a	NG							
509(a&b)	NG							
515(a&b)	NG							
516	NG							
517	NG							
521	NG							
525(a-c)	NG							
526(a-c)	NG							
540	LFG							
541	NG							
542	NG							
546(a&b)	NG							
552	CCCT	Goldendale Energy Center	Calpine	Goldendale, WA	277	Sep-04	High-Med	The same as High but needs confirmation on the COD

KEY	
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MED	= Favorable
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Transmission

High	Transmission available, No major problems, doable, Mature & Ready
High-Med	The same as High but needs confirmation on the COD
Med	The same as High but with possible multiple wheels or one or more factors uncertain
Med-Low	Regional issues unknown, Possible some transmission limitations, trans. technology unknown
Low	Risky & Not doable, Major problems, No transmission available, trans. technology unknown, & regional issues unknown

Technical

Code	Fuel Type	Project Name	Owner/Developer	Location	MW	COB	Tech Rating	Technical Comments	Timing	Operational Flexibility	Fit with PSE's Existing Portfolio	Resource Mix/Diversity	Resource Cost	Status and Schedule	Resource Flexibility and Stability	Resource Technology	Project Risk	Environmental Risk	Ability to Deliver
500	NG	COB Energy Facility LLC																	
501	NG	Ferndale Cogen Station																	
503-b	NG	Crow Westmoreland																	
504	NG	Bellingham Cold Storage (ownership)																	
505	NG	Chehalis Power Plant																	
509	NG	Grays Harbor																	

Redacted

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Technical

Code	File Type	Project Name	Owner/Agency	Location	HW	DDP	Tech Rating	Technical Comments	Technical Criteria
515	NG								
516	NG								
517	NG								
521	NG								
525	NG								
526	NG								

Redacted

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Technical

Code	Fuel Type	Project Name	Owner/Developer	Location	MW	COP	Tech Rating	Technical Comments	Technical Criteria
540	LFG								
541	NG								
542	NG								
546	NG								
552	CCOT								

Redacted

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Fuel Supply

Code	Fuel Code	Exemption	Old Supply	New Supply	Fuel Supply Rating	Fuel Supply Evaluation Criteria
500(a&b)	NG					Redacted
501(a-d)	NG					
503-b	NG					
504	NG					
505-a	NG					
509(a&b)	NG					
515(a&b)	NG					
516	NG					
517	NG					
521	NG					
525(a-c)	NG					
526(a-c)	NG					
540	LFG					
541	NG					
542	NG					

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Fuel Supply

546(a&b)	NG	Redacted				
552	CCCT	Goldendale Energy Center	Calpine	Goldendale, WA	277	Sep-04
		Project can be completed by a variation on the plan developed for providing gas transport to Goldendale during previous due diligence effort.				

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Environmental

Code	File Type	Project Name	Owner/Developer	City	State	Enviro Rating	Environmental Evaluation Criteria
500(a&b)	NG	Redacted					Plant is currently operating and there are no apparent compliance issues. Due diligence has been completed.
501(a-d)	NG						
503-b	NG						
504	NG						
505-a	NG						
509(a&b)	NG						
515(a&b)	NG						
516	NG						
517	NG						
521	NG						
525(a-c)	NG						
526(a-c)	NG						
540	LFG						
541	NG						
542	NG						
546(a&b)	NG	Goldendale Energy Center	Calpine	Goldendale, WA	277	Sep-04	High
552	CCCT						

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Environmental

LOW = Less Favorable / More Risks

Legal

Code	File Type	Goldendale Energy Center	Capline	Goldendale, WA	277	Sep-04	High	No construction risk.	Legal Rating	Legal Evaluation Criteria
500(a&b)	NG	Redacted								
501(a-d)	NG									
503-b	NG									
504	NG									
505-a	NG									
509(a&b)	NG									
515(a&b)	NG									
516	NG									
517	NG									
521	NG									
525(a-c)	NG									
526(a-c)	NG									
540	LFG									
541	NG									
542	NG									
546(a&b)	NG									
552	CCCT	Goldendale Energy Center	Capline	Goldendale, WA	277	Sep-04	High	No construction risk.		

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Real Estate

Code	Entity	Real Estate Rating	Real Estate Evaluation Criteria
500(a&b)	NG		Redacted
501(a-d)	NG		
503-b	NG		
504	NG		
505-a	NG		
509(a&b)	NG		
515(a&b)	NG		
516	NG		
517	NG		
521	NG		
525(a-c)	NG		
526(a-c)	NG		
540	LFG		
541	NG		

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Real Estate

Co.	SP	Unit	Overall AVG	High Risk	Low Risk	Real Estate Rating	Real Estate Evaluation Criteria
542	NG						Redacted
546(a&b)	NG						
552	CCCT	Goldendale Energy Center	Cabine	Goldendale, WA	277	Sep-04	Med-High Previously evaluated

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Highly Confidential
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Insurance

CCCT	Goldendale Energy Center	Calpine	Goldendale, WA	277	Sep-04	Med-High	Ins Rating	Insurance Evaluation Criteria
500(a&b)	NG							
501(a-d)	NG							
503-b	NG							
504	NG							
505-a	NG							
509(a&b)	NG							
515(a&b)	NG							
516	NG							
517	NG							
521	NG							
525(a-c)	NG							
526(a-c)	NG							
540	LFG							
541	NG							
542	NG							
546(a&b)	NG							
552	CCCT	Goldendale Energy Center	Calpine	Goldendale, WA	277	Sep-04	Med-High	Plant can be easily folded into PSE's property insurance program. \$485,000 est. max. in insurer loss control recommendations will result in \$60,000 reduction in annual property insurance premium.

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Plant Operations

Code	Site Type	Project Name	County	Project Status	Plant Ops Rating	Plant Operations Evaluation Criteria
500(a&b)	NG					
501(a-d)	NG					
503-b	NG					
504	NG					
505-a	NG					
509(a&b)	NG					
515(a&b)	NG					
516	NG					
517	NG					
521	NG					
525(a-c)	NG					
526(a-c)	NG					
540	LFG					
541	NG					
542	NG					

Redacted

Text in box is Highly Confidential

Highly Confidential
Per WAC 480-07-160

Plant Operations

		Redacted						
546(a&b)	NG							
552	CCCT	Goldendale Energy Center	Calpine	Goldendale, WA	277	Sep-04	Med	Modern technology that is familiar to PSE plant operations staff. Isolated from PSE service territory. Difficult location to coordinate maintenance logistics.

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Per WAC 480-07-160

Power Supply Operations

PSO Rating	Power Supply Operations Evaluation Criteria
500(a&b)	NG
501(a-d)	NG
503-b	NG
504	NG
505-a	NG
509(a&b)	NG
515(a&b)	NG
516	NG
517	NG
521	NG
525(a-c)	NG
526(a-c)	NG
540	LFG

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Per WAC 480-07-160

Power Supply Operations

Code	Sub-System	Project Name	Location	PSO Rating	Power Supply Operations Evaluation Criteria
541	NG	Redacted			
542	NG				
546(a&b)	NG				
552	CCCT	Goldendale Energy Center	Calpine	Goldendale, WA	277
				Sep-04	High
					Base loaded with low heat rate

KEY
HIGH = More Favorable / Less Risks
MED = Favorable
LOW = Less Favorable / More Risks

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System Planning -- Distributed Generation Proposal

Code	Priority	Phase II?	System Planning Comments
519	Distr. Gen/ NG		Redacted

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Business Commercial

Code	Full Name	Geographic Area	Country	City	State	Zip	B&C Lead	B/C Rating	Business/Commercial Evaluation Criteria
532	Hydro								
533	Hydro								
536-539	Hydro								
512	Geo								
547(a-c)	Geo								

Redacted

KEY
HIGH = More Favorable / Less Risks
MED = Favorable
LOW = Less Favorable / More Risks

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Per WAC 480-07-160

Transmission

Transmission		Trans Rating	Transmission Evaluation Criteria
532	Hydro	Redacted	Redacted
533	Hydro		
536-539	Hydro		
512	Geo		
547(a-c)	Geo		

KEY	= More Favorable / Less Risks
HIGH	= Favorable
MED	= Less Favorable / More Risks
LOW	

Transmission Evaluation Criteria:

- High Transmission available, No major problems, doable, Mature & Ready
- High-Med The same as High but needs confirmation on the COD
- Med The same as High but with possible multiple wheels or one or more factors uncertain
- Med-Low Regional issues unknown, Possible some transmission limitations, trans. technology unknown
- Low Risk & Not doable, Major problems, No transmission available, regional issues unknown

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Technical (Hydro)

Code	Fuel Type	Project Name	Owner/Developer	Technology	MW	USD	Tech Rating	Technical Comments	Technical Evaluation Criteria							Environmental Risk
									Timing	Operational Flexibility	Resource Technology Risk	Fit with PSE's Existing Portfolio	Resource Cost	Status and Schedule	Resource Flexibility and Stability	
532	Hydro	Redacted														
533	Hydro															
536-539	Hydro															

KEY
HIGH = More Favorable / Less Risks
MED = Favorable
LOW = Less Favorable / More Risks

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Per WAC 480-07-160

Technical (Geothermal)

Code	Site Type	Project Name	Owner/Developer	Tech Rating	Technical Comments	Technical Evaluation Criteria							Project Risk	Enviro/ Permitting Risk
						Timing	Operational Flexibility	Fit with Existing Portfolio	Resource Mix / Diversity	Resource Cost	Status and Schedule	Resource Flexibility and Stability		
512	Geo	Redacted												
547(a-c)	Geo													

KEY
HIGH = More Favorable / Less Risks
MED = Favorable
LOW = Less Favorable / More Risks

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Fuel Supply (Hydro)

		Dispatchability	Hydro Variation (purely relative)	Fuel Supply Rating	Fuel Supply Evaluation Criteria
532	Hydro				
533	Hydro				
536-539	Hydro				

Redacted

KEY	Dispatchability	Hydro Variation (purely relative)
	Reservoir - Allows seasonal energy storage	A long period / little annual hydro variation
High (5)	Pondage - Diurnal energy	Moderate Seasonal Variation
Med (3)	No storage - run of river	Little Seasonal Variation
Low (1)		

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Hydro Variability

Annual Hydro Variability

Year	Annual (MWh)
1	
2	
3	
4	
5	
6	
7	
8	
Avg	
StDev	
Min/Avg	
StDev / Avg	

Year	Annual (aMW)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
Avg	
StDev	
Min/Avg	
StDev / Avg	

YEAR	Total
1950	
1951	
1952	
1953	
1954	
1955	
1956	
1957	
1958	
1959	
1960	
1961	
1962	
1963	
1964	
1965	
1966	
1967	
1968	
1969	
1970	
1971	
1972	
1973	
1974	
1975	
1976	
1977	
1978	
1979	
1980	
2002	
2003	
2004	
2005	
Avg	
StDev	
Min/Avg	
StDev / Avg	

Redacted

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Per WAC 480-07-160

Fuel Supply (Geo)

Code	Geo	Proven Resource	Impurities / By-Products	Fuel Supply Rating	Fuel Supply Evaluation Criteria
512	Geo				
547(a-c)	Geo				

Redacted

KEY	Proven Resource	Impurities / By-Products
High (5)	Resource has been proven by existing production wells. A 3rd party assessment has proven the 20 year viability.	Impurities are fully known and easily mitigated.
Med (3)	Resource has nearby production wells. 3rd party assessment has not been	Impurities are somewhat unknown but a mitigation plan is in place.
Low (1)	Test wells are inconclusive and / or have not been drilled	Hazardous impurities are or maybe present, where mitigation would prove a significant hurdle

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Per WAC 480-07-160

Legal

Code	Category	Legal Team	Legal Evaluation Criteria
532	Hydro	Redacted	
533	Hydro		
536-539	Hydro		
512	Geo		
547(a-c)	Geo		

KEY
HIGH = More Favorable / Less Risks
MED = Favorable
LOW = Less Favorable / More Risks

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Per WAC 480-07-160

Real Estate

Case No.	Real Estate Type	Project Name	Location	County	Real Estate Rating	Real Estate Evaluation Criteria
532	Hydro					
533	Hydro					
536-539	Hydro					
512	Geo					
547(a-c)	Geo					

Redacted

KEY	= More Favorable / Less Risks
HIGH	= Favorable
MED	= Less Favorable / More Risks
LOW	

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Per WAC 480-07-160

Insurance

Code	Fuel Type	Other Hazards	Ins Rating	Insurance Evaluation Criteria
532	Hydro			
533	Hydro			
536-539	Hydro			
512	Geo			
547(a-c)	Geo			

Redacted

KEY
HIGH = More Favorable / Less Risks
MED = Favorable
LOW = Less Favorable / More Risks

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Per WAC 480-07-160

Plant Operations

Code	Plant Type	Project Name	Swirl Direction	Location	DOB	Plant Ops Rating	Plant Operations Evaluation Criteria
532	Hydro						
533	Hydro						
536-539	Hydro						
512	Geo						
547(a-c)	Geo						

Redacted

KEY	= More Favorable / Less Risks
HIGH	= Favorable
MED	= Less Favorable / More Risks
LOW	

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Power Supply Operations

Code	Site Name	County	City	PSO Rating	Power Supply Operations Evaluation Criteria
532	Hydro				Redacted
533	Hydro				
536-539	Hydro				
512	Geo				
547(a-c)	Geo				

KEY
HIGH = More Favorable / Less Risks
MED = Favorable
LOW = Less Favorable / More Risks

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Per WAC 480-07-160

2005 RFP
Phase 1 Non-Specific PPA Ratings

Project Number	Project Name	Owner/Developer	Capacity (MW)	Available Capacity (MW)	Ratio	Business & Commercial	Credit	Power Supply Operations	Behind Side Resources	Phase II?
505-b	Redacted	Redacted	Redacted	Redacted	Redacted	Redacted	Redacted	Redacted	Redacted	N
507a										N
507-b1										N
507-b2										N
507c										N
507-d1										N
507-d2										N
507e										N
508b1										N
508b2										N
508b3										N
508b4										N
513-a										N
522-C										Y
522-D										Y
522-E										N

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**2005 RFP
Phase 1 Non-Specific PPA Ratings**

[illegible]

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Per WAC 480-07-160

2005 RFP Phase 1 Non-Specific PPA Ratings

535-a2	0.1	Redacted	0.1	N
535B	[Redacted]	Redacted	[Redacted]	N
535C	-0.038	Redacted	-0.038	N
535-d1	[Redacted]	Redacted	[Redacted]	N
535-d2	[Redacted]	Redacted	[Redacted]	N
535-e1	0.411	Redacted	0.411	N
535-e2	[Redacted]	Redacted	[Redacted]	N
554a	0.136	Redacted	0.136	Y
554b	0.071	Redacted	0.071	N

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Per WAC 480-07-160

2005 RFP
Phase 1 Non-Specific PPA Ratings

554c	Redacted	-0.024	Redacted	Z
554d	Redacted	-0.265	Redacted	Z
554e	Redacted	0	Redacted	Z
554f	Redacted	-0.052	Redacted	Z
DSM Proposal				

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Per WAC 480-07-160

2005 RFP
Phase 1 Non-Specific PPA Ratings

545	Redacted
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KEY
High = More Favorable / Less Risks
Med = Favorable
Low = Less Favorable / More Risks

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Per WAC 480-07-160

Business Commercial

Code	Code Type	Team Rating	Team Evaluation Criteria
505-b	NG		
507a	PPA		
507-b1	PPA		
507-b2	PPA		
507c	PPA		
507-d1	PPA		
507-d2	PPA		
507e	PPA		

Redacted

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Per WAC 480-07-160

Business Commercial

508b1	PPA	Redacted
508b2	PPA	
508b3	PPA	
508b4	PPA	
513-a	PPA	
522-C	PPA	
522-D	PPA	
522-E	PPA	
522-F	PPA	
544	PPA	
Ending after 2009		
510	NG	
511-a	PPA	
511-b	PPA	
511-c	PPA	
511-d	PPA	

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Business Commercial

513-b	PPA
522-A	PPA
522-B	PPA
522-G	PPA
522-H	PPA
527a	PPA
527b	PPA
527c	PPA
527d	PPA
527e	PPA
527f	PPA
527g	PPA
527h	PPA
527i	PPA

Redacted

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Per WAC 480-07-160

Business Commercial

529	PPA	Redacted	
535-a1	PPA		
535-a2	PPA		
535B	PPA		
535C	PPA		
535-d1	PPA		
535-d2	PPA		
535-e1	PPA		
535-e2	PPA		

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Per WAC 480-07-160

Business Commercial

554a	PPA	Redacted		
554b	PPA			
554c	PPA			
554d	PPA			
554e	PPA			

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Per WAC 480-07-160

Business Commercial

554f	PPA	Redacted	
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KEY
HIGH /orable / Less Risks
MED Favorable
LOW orable / More Risks

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Per WAC 480-07-160

Credit

Code	Category	Subcategory	Division	Activity	Activity	Activity	Activity	Activity	Team Rating	Team Evaluation Criteria
505-b	NG									
507a	PPA									
507-b1	PPA									
507-b2	PPA									
507c	PPA									
507-d1	PPA									
507-d2	PPA									
507e	PPA									
508b1	PPA									
508b2	PPA									
508b3	PPA									
508b4	PPA									
513-a	PPA									
522-C	PPA									

Redacted

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Per WAC 480-07-160

Credit

		Team Rating	Team Evaluation Criteria
522-D	PPA		
522-E	PPA		
522-F	PPA		
544	PPA		
Ending after 2003			
510	NG		
511-a	PPA		
511-b	PPA		
511-c	PPA		
511-d	PPA		
513-b	PPA		
522-A	PPA		
522-B	PPA		
522-G	PPA		
522-H	PPA		
527a	PPA		
527b	PPA		
527c	PPA		

Redacted

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Per WAC 480-07-160

Credit

Team Rating	Team Evaluation Criteria
527d	PPA
527e	PPA
527f	PPA
527g	PPA
527h	PPA
527i	PPA
529	PPA
535-a1	PPA
535-a2	PPA
535B	PPA
535C	PPA
535-d1	PPA
535-d2	PPA
535-e1	PPA
535-e2	PPA

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Per WAC 480-07-160

Credit

Code	Area Type	Project Name	County	Delivered (MW)	Delivered (MW)	Delivered (MW)	Team Rating	Team Evaluation Criteria
554a	PPA	Redacted						
554b	PPA							
554c	PPA							
554d	PPA							
554e	PPA							

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Credit

Team Evaluation Criteria					Team Rating
554f	PPA	Redacted			

KEY
HIGH Favorable / Less Risks
MED Favorable
LOW Favorable / More Risks

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Power Supply Operations

Code	PSO Type	Problem Name	Current Development	Reliability	Balance (MW)	System Reliability	PSO Rating	Power Supply Operations Evaluation Criteria
Ending before 2003								
505-b	NG							
507a	PPA							
507-b1	PPA							
507-b2	PPA							
507c	PPA							
507-d1	PPA							
507-d2	PPA							
507e	PPA							
508b1	PPA							
508b2	PPA							
508b3	PPA							
508b4	PPA							
513-a	PPA							

Redacted

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Power Supply Operations

Code	Facility Name	Facility Type	Facility Status	Facility Location	Facility Description	Facility Details	Facility Notes	Facility Comments	Facility Actions	Facility Status	Facility Rating	Power Supply Operations Evaluation Criteria
522-C	PPA											
522-D	PPA											
522-E	PPA											
522-F	PPA											
544	PPA											
Ending after 2009												
510	NG											
511-a	PPA											
511-b	PPA											
511-c	PPA											
511-d	PPA											
513-b	PPA											
522-A	PPA											
522-B	PPA											
522-G	PPA											

Redacted

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Power Supply Operations

Power Supply Operations				PSO Rating	Power Supply Operations Evaluation Criteria
522-H	PPA				Redacted
527a	PPA				
527b	PPA				
527c	PPA				
527d	PPA				
527e	PPA				
527f	PPA				
527g	PPA				
527h	PPA				
527i	PPA				
529	PPA				
535-a1	PPA				
535-a2	PPA				

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Power Supply Operations

Item	Part Number	Quantity	Unit Price	Material	PSO Rating	Power Supply Operations Evaluation Criteria
535B	PPA					
535C	PPA					
535-d1	PPA					
535-d2	PPA					
535-e1	PPA					
535-e2	PPA					
554a	PPA					
554b	PPA					

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Power Supply Operations

Code	Rate Type	Project Name	Owner/Developer	Delivered to	Delivered (MW)	PSO Rating	Power Supply Operations Evaluation Criteria
554c	PPA						
554d	PPA						
554e	PPA						
554f	PPA						

Redacted

KEY
HIGH /orable / Less Risks
MED Favorable
LOW /orable / More Risks

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Per WAC 480-07-160

Demand Side Management

Code	Team	Project Name	Owner/Decision	Rating	Team Evaluation Criteria
545	DSM				

Team Evaluation Criteria	Rating	Assessment
Compatibility with PSE Resource Needs		
Timing		
Resource match to monthly need		
Match to monthly need through contract		
Operational Flexibility		
Performance Within Existing PSE Generation Portfolio		
Resource Mix/Diversity		
Cost Minimization		
Resource Cost		
Transmission		
Portfolio Cost Impact (for proposals that make the preliminary shortlist only)		

Redacted

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Demand Side Management

Risk Management	
Status & Schedule	Redacted
Price Volatility	
Resource Flexibility and Stability	
Resource Technology	
Long-term Flexibility	
Project Risk	
Impact on PSE's Overall Risk Position (for proposals that make the preliminary shortlist only)	
Environmental and Permitting Risk	
Respondent Risk	
Ability to Deliver as Proposed (Development Status & Schedule)	
Ability to Deliver as Proposed (Experience & Qualification of the Project Status of Transmission Rights)	Redacted
Managerial Control	
Security & Control	
Federal Regulatory Approvals	
Public Benefits	
Environmental Impacts	Redacted

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Demand Side Management

Resource Location	Redacted
Community Impacts	
Strategic & Financial	
Capital Structure Impacts	
Future Exposure to Environmental Regulations and/or Taxes.	
Guarantees & Security	

KEY
HIGH = More Favorable / Less Risks
MED = Favorable
LOW = Less Favorable / More Risks

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Per WAC 480-07-160

2005 RFP
Phase 1 Wind Ratings

Project Name		MW	Dispatch (\$/MWh)	Portfolio Benefit	SEC	Tanks	Technical Supply	Fuel Supply	Environ	Legal	Real Estate	Insurance	Plant Ops	Power supply Ops	PHASE II (Y/N)
502-a				(3,119)	(0.009)										N
502-b				16,443	0.065										Y
503(c&d)				449,935 (34,345)	0.115 (0.140)										N
508-a				186	0.002										N
514				(6,319)	(0.025)										N
518															N
524(a-c)				21549 24,068 24,447	0.088 0.099 0.101										Y
530				20,991	0.036										Y
531(a-b)				(22,106) (37,779)	(0.093) (0.163)										N
534				19,039	0.044										N
550				1,299	0.006										
553 (a&b)				22,705 9,267	0.096 0.037										Y

Redacted

KEY	High = More Favorable / Less Risks
	Med = Favorable
	Low = Less Favorable / More Risks

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Business Commercial

Code	Entity Name	Entity Type	B&C Lead	B/C Rating	Business/Commercial Evaluation Criteria
502-a					
502-b					
503(c)					
508-a					
514					
518					
524					
530					
531(a-b)					

Redacted

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Business Commercial

		B&C Lead	B/C Rating	Business/Commercial Evaluation Criteria
534	Wind			
553	Wind			

KEY	= More Favorable / Less Risks
HIGH	= Favorable
MED	= Less Favorable / More Risks
LOW	

Redacted

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Text in box is Highly Confidential

Transmission

		Trans Rating	Transmission Evaluation Criteria
502-a	Wind		Redacted
502-b	Wind		
503(c)	Wind		
508-a	Wind		
514	Wind		
518	Wind		
524	Wind		
530	Wind		
531(a-b)	Wind		
534	Wind		
553	Wind		

KEY	= More Favorable / Less Risks
HIGH	= Favorable
MED	= Less Favorable / More Risks
LOW	

Transmission Evaluation Criteria:

- High Transmission available, No major problems, doable, Mature & Ready
- High-Med The same as High but needs confirmation on the COD
- Med The same as High but with possible multiple wheels or one or more factors uncertain
- Med-Low Regional issues unknown, Possible some transmission limitations, trans. technology unknown
- Low Risk & Not doable, Major problems, No transmission available, trans. technology unknown, & regional issues unknown

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Per WAC 480-07-160

Technology

Code	Fuel Type	Project Name	Owner/Developer	Location	Tech Rating	Technology Comments	Evaluation Criteria								Enviro Risk
							Timing	Operational Flexibility	Resource Technology Risk	Fit with Existing Portfolio	Resource Cost	Status and Schedule	Resource Flexibility & Stability	Project Risk	
502-a	Wind														
502-b	Wind														
503	Wind														
508-a	Wind														
514	Wind														
518	Wind														
524	Wind														

Redacted

Redacted

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Per WAC 480-07-160

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Technology

Order	File Type	Project Name	Project Location	Tech Rating	Technology Comments	Timing	Operational Flexibility	Resource Technology Risk	Fit with Existing Portfolio	Resource Cost	Status and Schedule	Resource Flexibility & Stability	Project Risk	Enviro Risk
530	Wind	Redacted												
531(a-b)	Wind													
534	Wind													
553	Wind													

KEY
HIGH = More Favorable / Less Risks
MED = Favorable
LOW = Less Favorable / More Risks

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Per WAC 480-07-160

Fuel Supply

Code	Code Type	Fuel Supply Rating
502-a	Wind	Redacted
502-b	Wind	
503(c)	Wind	
508-a	Wind	
514	Wind	
518	Wind	
524	Wind	
530	Wind	
531(a-b)	Wind	
534	Wind	
550	Wind	
553	Wind	

KEY	
High	5
Med-	4
Med	3
Med-Low	2
Low	1

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Per WAC 480-07-160

Environmental

Environmental		Enviro Rating	Environmental Evaluation Criteria
502-a	Wind	Redacted	
502-b	Wind		
503(c)	Wind		
508-a	Wind		
514	Wind		
518	Wind		
524	Wind		
530	Wind		
531(a-b)	Wind		
534	Wind		
553	Wind		

KEY	
HIGH	= More Favorable / Less Risks
MED	= Favorable
LOW	= Less Favorable / More Risks

Text in box is Highly Confidential

Highly Confidential
Per WAC 480-07-160

Legal

Code	Site Type	Project Name	Legal Rating	Legal Evaluation Criteria
502-a	Wind			
502-b	Wind			
503(c)	Wind			
508-a	Wind			
514	Wind			
518	Wind			
524	Wind			
530	Wind			
531(a-b)	Wind			
534	Wind			
553	Wind			

Redacted

KEY

HIGH = More Favorable / Less Risks

MED = Favorable

LOW = Less Favorable / More Risks

Highly Confidential
Per WAC 480-07-160

Text in box is Highly Confidential

Real Estate

Real Estate		Real Estate Rating	Real Estate Evaluation Criteria
502-a	Wind	Redacted	
502-b	Wind		
503(c)	Wind		
508-a	Wind		
514	Wind		
518	Wind		
524	Wind		
530	Wind		
531(a-b)	Wind		
534	Wind		
553	Wind		

KEY	= More Favorable / Less Risks
HIGH	= Favorable
MED	= Less Favorable / More Risks
LOW	

Highly Confidential
Per WAC 480-07-160

Text in box is Highly Confidential

Insurance

Insurance		Ins Rating	Insurance Evaluation Criteria
502-a	Wind	Redacted	
502-b	Wind		
503(c)	Wind		
508-a	Wind		
514	Wind		
518	Wind		
524	Wind		
530	Wind		
531(a-b)	Wind		
534	Wind		
553	Wind		

KEY	= More Favorable / Less Risks
HIGH	= Favorable
MED	= Less Favorable / More Risks
LOW	

Text in box is Highly Confidential

Highly Confidential
Per WAC 480-07-160

Plant Operations

Code	Code Type	Plant Operations Evaluation Criteria	Plant Ops Rating
502-a	Wind	Redacted	
502-b	Wind		
503(c)	Wind		
508-a	Wind		
514	Wind		
518	Wind		
524	Wind		
530	Wind		
531(a-b)	Wind		
534	Wind		
553	Wind		

KEY
HIGH = More Favorable / Less Risks
MED = Favorable
LOW = Less Favorable / More Risks

Highly Confidential
Per WAC 480-07-160

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Power Supply Operations

		PSO Rating	Power Supply Operations Evaluation Criteria
502-a	Wind	Redacted	
502-b	Wind		
503(c)	Wind		
508-a	Wind		
514	Wind		
518	Wind		
524(a-c)	Wind		
530	Wind		
531(a-b)	Wind		
534	Wind		
550	Wind		
553	Wind		

KEY	= More Favorable / Less Risks
HIGH	= Favorable
MED	= Less Favorable / More Risks
LOW	

Text in box is Highly Confidential

Highly Confidential
Per WAC 480-07 -160