JUN 1 4 2007

June 14, 2007

DEPARTMENT OF

RCT-96-07

Mr. John White Oregon Department of Energy 625 Marion Street, NE Salem, OR 97301-3742

Re: <u>Proposed Temporary Crane Path: Request for Department of Energy</u>
Determination Pursuant to OAR 345-027-0050(5) – Change Request #2

Dear John:

As you know, Portland General Electric Company (PGE) is the holder of the Second Amended Site Certificate for the Biglow Canyon Wind Farm (the "Site Certificate"). Construction of the Biglow Canyon Wind Farm has commenced. PGE is proposing to modify the approved facility as shown on the attached Figure 1. Specifically, PGE proposes to construct a new temporary crane path between Helm Lane and the northern end of Turbine String 10, and eliminate the approved, but not constructed, permanent access road between Turbine 3 and Turbine 4 in Turbine String 9.

The proposed new crane path would extend north from the vicinity of Turbine 28 to cross the upper course of Box Canyon; the crane path then turns westerly to connect with Helm Lane, as shown on the "Revised Facility Layout" on Figure 1. The crane path would be approximately 1,416 feet long. The new crane path allows PGE to avoid dismantling the crane in traveling between the northern ends of Strings 9 and 10. Helm Lane in the area between Turbines 28 and 30 is not passable to a crane; therefore, the new temporary crane path provides a route for moving the crane between the northern ends of Strings 9 and 10 without dismantling it. PGE would not construct the approved permanent access road between Turbine 3 and Turbine 4, approximately 3,167 feet in length, as shown on the "Original Facility Layout" on Figure 1. Instead of the permanent access road, PGE would construct turnarounds approximately 100 feet in diameter within the approved corridor near Turbine 3 and Turbine 4.

As discussed below, the new temporary crane path would not increase the overall permanent disturbance area and habitat impacts, nor would it impact any other protected resources. Elimination of the segment of permanent access road in Turbine String 9 would decrease the permanent disturbance area and habitat impacts. The result of the proposed facility changes, therefore, is a net reduction in permanent impacts.

Pursuant to OAR 345-027-0050(5), PGE requests a determination by the Oregon Department of Energy that the change outlined above does not require an amendment to the Site Certificate. OAR 345-027-0050(5) provides:

A certificate holder may ask the Department to determine whether a proposed change requires a site certificate amendment by submitting a written description of the proposed change, the certificate holder's analysis of the proposed change under sections

(1) and (2) and the written evaluation described in section (3). The Department shall respond in writing as promptly as possible. The Department may refer its determination to the Council for concurrence, modification or rejection. At the request of the certificate holder or a Council member, the Department must refer its determination to the Council for concurrence, modification or rejection.

#### 1. Analysis Under OAR 345-027-0050(1)

PGE requests a determination that the proposed change does not meet the threshold requirements for an amendment to the Site Certificate under OAR 345-027-0050(1). OAR 345-027-0050(2) is not directly relevant to PGE's request. OAR 345-027-0050(1) provides:

Except as allowed under sections (2) and (6), the certificate holder must submit a request to amend the site certificate to design, construct or operate a facility in a manner different from the description in the site certificate if the proposed change:

- (a) Could result in a significant adverse impact that the Council has not addressed in an earlier order and the impact affects a resource protected by Council standards;
- (b) Could impair the certificate holder's ability to comply with a site certificate condition; or
- (c) Could require a new condition or a change to a condition in the site certificate.
- A. The proposed change would not result in a significant adverse impact that the Council has not addressed in an earlier order.

The certificate holder has evaluated the potential impacts of the new temporary crane path through studies designed to determine whether the new crane path would adversely impact any resources protected by Council rules. No adverse impacts were identified. The following summarizes the studies that have been performed and that are attached to this request:

(i) Threatened, Endangered and Sensitive Wildlife Species

Attached as Exhibit 1 is a Technical Memorandum from West, Inc., describing surveys performed in May 2007 for threatened, endangered and sensitive wildlife species. The location of the new temporary crane path is "Area D". The surveys found no threatened, endangered or sensitive wildlife species in Area D.

#### (ii) Habitat Impacts

The proposed change involves the construction of a temporary crane path between Helm Lane and the northern end of Turbine String 10. The crane path does not create any permanent impacts, and the net impact of eliminating the permanent road segment in Turbine String 9 (and adding the two turnarounds) would be to reduce permanent impacts to Category 6 habitat by 1.74 acres and to reduce permanent impacts to Category 4 habitat by 0.07 acres, for a total reduction of 1.81 acres in permanent habitat impacts. Changes in permanent disturbance are summarized on the table attached as Exhibit 2.

#### (iii) Cultural Resource Impacts

Attached as Exhibit 3 is a Cultural Resource Survey by Archaeological Investigations Northwest, Inc. (AINW). The AINW report addresses two possible changes in the Biglow Canyon Wind Farm. With respect to the proposed temporary crane path between Helm Lane and the northern end of Turbine String 10, the survey by AINW found no archaeological or historical resources, and AINW concludes that the area does not have a high probability of prehistoric archaeological resources based on where such resources have been recorded in previous surveys.

#### (iv) Wetlands and Rare Plant Habitat

Attached as Exhibit 4 is a report from CH2M Hill, Inc. describing the results of surveys for wetlands or other jurisdictional waters of the United States or the State, and for rare plant habitat. As described in the report, the temporary crane path (Study Area D) would cross one intermittent stream, identified as Drainage D, which is a tributary of the John Day River. Drainage D is potentially a jurisdictional water under Section 404 of the Clean Water Act and the Oregon Removal-Fill Law. However, no fill or removal would occur in Drainage D. The only activity that would occur is the movement of a crane over the path. The report (at p. 4) notes: "Impacts to this potentially jurisdictional water could be avoided by implementing best management practices (BMPs) such as silt fencing and other erosion control measures to ensure no fill entered the channel." The certificate holder is required by Condition 26 of the Site Certificate to comply with an Erosion and Sediment Control Plan under an NPDES Storm Water Discharge General Permit #1200-C. In addition, Conditions 27-35 also ensure that the certificate holder will protect against erosion such that fill will not enter Drainage D.

No federal or state listed plant habitat or species were identified in Study Area D.

B. The proposed change would not impair the certificate holder's ability to comply with any site certificate condition.

The proposed change does not result in permanent disturbance in any area not previously evaluated. Moreover, as described above, the change does not create any net impacts to habitat, and does not create any adverse impact to other resources protected by Council rules. The Site Certificate already contains adequate conditions to address the potential impacts of the

temporary disturbance associated with the additional crane path (for example, Soil Protection conditions 26-35 and Historic, Cultural and Archaeological conditions 69-73). Construction of the temporary crane path would not impair PGE's ability to comply with those conditions.

C. The proposed change would not require a new condition or a change to a condition of the site certificate.

As described above, the Site Certificate already contains adequate conditions to address any impacts (soil impacts, restoration of temporary disturbance areas, and impacts to previously undiscovered archaeological resources) that might arise from the facility changes addressed in this request.

#### 2. Evaluation required by OAR 345-027-0050(3)

OAR 345-027-0050(3) requires that if the certificate holder concludes that a change does not require a site certificate amendment "based on the criteria in section (2), the certificate holder shall, nevertheless, complete an investigation sufficient to demonstrate that the proposed change in the design, construction and operation of the facility would comply with applicable Council standards." The certificate holder's justification for not requiring a site certificate amendment arises under OAR 345-027-0050(1), rather than OAR 345-027-0050(2). However, in order to ensure that the Department and the Council have all relevant information, we are providing the evaluation of compliance with applicable Council standards.

For the reasons described above, the certificate holder's proposal to use a temporary crane path between Helm Lane and the northern end of Turbine String 10, to eliminate over 3,000 feet of permanent access road in Turbine String 9, and to construct two turnarounds in Turbine String 9, does not alter the Council's prior findings that the Biglow Canyon Wind Project will comply with Council standards for Soil Protection (OAR 345-022-0022), Threatened and Endangered Species (OAR 345-022-0070), Fish and Wildlife Habitat (OAR 345-022-0060), and Historic, Cultural and Archaeological Resources (OAR 345-0220-0090). The proposed facility changes would not involve the construction of additional turbines, transmission facilities. or other structures, and would decrease the area of permanent disturbance associated with the Biglow Canyon Wind Farm. Therefore, the changes do not alter the Council's prior findings of compliance with standards regarding Organizational Expertise (OAR 345-022-0010), Retirement and Financial Assurance (OAR 345-022-0050), Land Use (OAR 345-022-0030), Protected Areas (OAR 345-022-0040), Scenic and Aesthetic Values (OAR 345-022-0080), Recreation (OAR 345-022-0100), Public Health and Safety for Wind Energy Facilities (OAR 345-024-0010), Siting Standards for Wind Energy Facilities (OAR 345-024-0015), Siting Standards for Transmission Lines (OAR 345-024-0090), Structural Standard (OAR 345-022-0020), Public Services (OAR 345-022-0110), Waste Minimization (OAR 345-022-0120), and Noise Control (OAR 340-035-0035).

For the reasons set forth in this letter, we request the Department's determination that the proposed addition of the temporary crane path and elimination of the approved (but not constructed) permanent access road segment do not require an amendment to the Site Certificate.

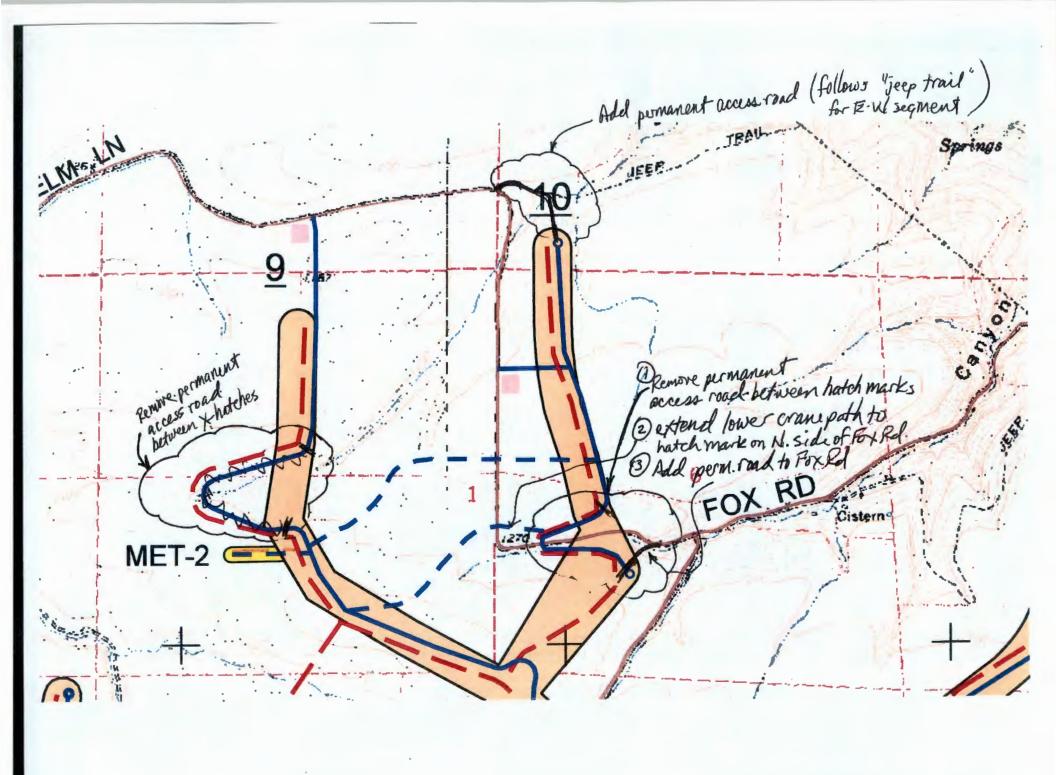
Sincerely,

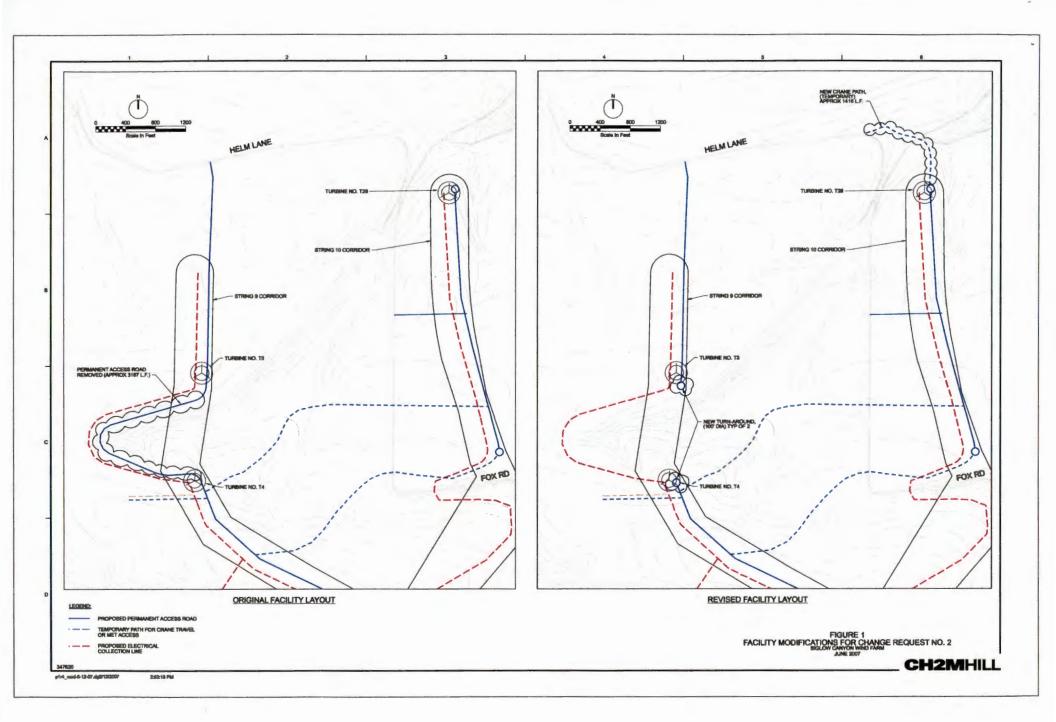
Rick Tetzloff

Attachments

cc: Richard Allan (via email)

Kelley Marold (via email)







Change Request	#2 - Permanent Disturbance change	es due to access road changes between	een T3 and T4 at Box Canyo	n:
	Cat 6 agriculture-nonvalue	Cat 6 agriculture-highvalue	Cat 4 Grassland	Total
Remove from project	38639	2680	413	41732
	44545		2685	47230
Total Removal: (s.f.)	83184	2680	3098	88962
Total Removal: (acres)	1.91	0.06	0.07	2.04
Add to Project	2475 2543	2517 2500		4992 5043
Total Addition: (s.f.)	5018	5017	0	10035
Total Addition: (acres)	0.12	0.12	0.00	0.23

(0.07)

(1.81)

Net Change: (acres) (1.79) 0.05

	OR State Plane,			3, decimal degrees	
Corridor Alignment (Center Lines):	Northing (Y)	Easting (X)	Latitude	Longitude	1-31-07 edits
Temporary Crane paths, 200' wide corridors					
Crane Path 1: Northern path between Strings 9 & 10		***************************************			
Crane Path 1 start point	735430.03	8168134.40	N 45.68379704	W 120.63289943	
Crane Path 1 mid point	735568.96	8168370.71	N 45.68417913	W 120.63197568	
Crane Path 1 mid point	735728.13	8168668.42	N 45.68461698	W 120.63081181	
Crane Path 1 mid point	736058.26	8169001.49	N 45.68552385	W 120.62951063	
Crane Path 1 mid point	736329.44	8169134.13	N 45.68626815	W 120.62899331	
Crane Path 1 mid point	736453.24	8169272.67	N 45.68660828	W 120.62845198	
Crane Path 1 mid point	736529.88	8169667.65	N 45.68682018	W 120.62690690	
Crane Path 1 end point	736506.07	8171367.27	N 45.68676201	W 120.62025615	
Compa Dath 2: Coulting and hadron China 0.0.40					
Crane Path 2: Southern path between Strings 9 & 10	704570.00	0400404.00	AL 45 004 45070		
Crane Path 2 start point Crane Path 2 mid point	734573.99 734584.47	8169124.66	N 45.68145373	W 120.62901940	
Crane Path 2 mid point	734690.58	8169219.61 8169443.63	N 45.68148288 N 45.68177487	W 120.62864796 W 120.62777211	
Crane Path 2 mid point	735259.47	8169929.98	N 45.68333716	W 120.62587266	
Crane Path 2 mid point	735539.49	8170233.59	N 45.68410642	W 120.62468640	
Crane Path 2 mid point	735604.33	8170386.86	N 45.68428489	W 120.62408707	
Crane Path 2 mid point	735627.91	8170557.82	N 45.68435028	W 120.62341828	
Crane Path 2 mid point	735549.72	8171308.31	N 45.68413895	W 120.62048128	
Crane Path 2 end point	735646.83	8171591.75	N 45.68440643	W 120.61937280	added 5:24-07
Crane Path 3: Path between southern tip of String 9 and String 14					
Crane Path 3 start point	726824.38	8173591.51	N 45.66021829	W 120.61150043	
Crane Path 3 mid point	726730.10	8173588.26	N 45.65995971	W 120.61151263	
Crane Path 3 mid point	726543.19	8173633.85	N 45.65944727	W 120.61133332	
Crane Path 3 mid point	726292.46	8173807.08	N 45.65876028	W 120.61065445	
Crane Path 3 mid point	726173.93	8173984.87	N 45.65843587	W 120.60995847	
Crane Path 3 mid point	726110.11	8174180.90	N 45.65826157	W 120.60919145	
Crane Path 3 mid point	726059.96	8174563.84	N 45.65812544	W 120.60769350	
Crane Path 3 mid point	726059.96	8174955.89	N 45.65812686	W 120.60616019	
Crane Path 3 mid point Crane Path 3 mid point	726164.81	8175489.27	N 45.65841633	W 120.60407466	
Crane Path 3 mid point	726415.55	8176050.00	N 45.65910595	W 120.60188286	
Crane Path 3 end point	726493.05	8176442.06	N 45.65931985	W 120.60034986	
Craire Faut 3 end point	726497.61	8176951.88	N 45.65933407	W 120.59835592	
Crane Path 4: Short N-S path segment between Crane Path 3 and acce	see mad (hotwoon Stri	ng 14 & Harin I n			
Crane Path 4 start point	725581.83	8174377.36	N 45.65681346	W 120.60842032	•
Crane Path 4 end point	726069.25	8174377.36	N 45.65815024	W 120.60842288	
			11 40.00010024	11 120.000 12200	
Crane Path 5: Path between southern tip of String 9 and northern portion	n of String 13				
Crane Path 5 start point	723496.51	8171702.01	N 45.65108402	W 120.61887142	
Crane Path 5 mid point	723953.81	8172339.15	N 45.65234073	W 120.61638244	
Crane Path 5 mid point	724154.39	8172512.39	N 45.65289152	W 120.61570609	
Crane Path 5 mid point	724528.21	8172708.42	N 45.65391751	W 120.61494156	
Crane Path 5 mid point	724974.97	8172781.36	N 45.65514306	W 120.61465879	
Crane Path 5 mid point	726028.34	8172779.24	N 45.65803199	W 120.61467293	
Crane Path 5 mid point	726201.60	8172868.58	N 45.65850751	W 120.61432448	
Crane Path 5 end point	726492.64	8173376.51	N 45.65930766	W 120.61233952	
Crane Path 6: Path between String 13 and southern portion of String 14					
Crane Path 6 start point	722731.28	8172162.87	N 45.64898717	W 120.61706487	
Crane Path 6 mid point	722891.61	8173146.06	N 45.64943073	W 120.61322110	
Crane Path 6 mid point	723005.58	8173415.03	N 45.64974433	W 120.61216993	
Crane Path 6 mid point Crane Path 6 mid point	723083.08	8173807.08	N 45.64995836	W 120.61063726	
Crane Path 6 mid point	723128.67 723224.40	8174203.70 8174627.66	N 45.65008487 N 45.65034897	W 120.60908654 W 120.60742916	
Crane Path 6 mid point	723224,40	8175142.80	N 45.65034697	W 120.60541620	
Crane Path 6 end point	723686.58	8175463.46	N 45.65161953	W 120.60416311	
			11 10.00101000		
Crane Path 7: Path between String 8 (east of Met-3) and String 13					
Crane Path 7 start point	718635.10	8166520.87	N 45.63772857	W 120.63909969	
Crane Path 7 mid point	718613.38	8167398.69	N 45.63767310	W 120.63566761	
Crane Path 7 mid point	718650.59	8167984.80	N 45.63777782	W 120.63337639	
Crane Path 7 mid point	718790.14	8168449.96	N 45.63816264	W 120.63155869	
Crane Path 7 mid point	719041.33	8168766.28	N 45,63885296	W 120.63032357	
Crane Path 7 mid point	720074.00	8169612.88	N 45.64168883	W 120.62701998	
Crane Path 7 mid point	720548.47	8170096.65	N 45.64299217	W 120.62513137	
Crane Path 7 mid point	720743.83	8170403.66	N 45.64352925	W 120.62393214	
Crane Path 7 mid point	720836.87	8170747.88	N 45.64378586	W 120.62258679	
Crane Path 7 mid point Crane Path 7 mid point	720874.08	8171268.86	N 45.64389006	W 120.62054996	
Crane Path 7 mid point Crane Path 7 end point	720883.38	8171817.76	N 45.64391780	W 120.61840380	
Ordino r dui / dilu politi	720844.15	8172327.78	N 45.64381224	W 120.61640938	
Crane Path 8: Between Helm Rd and North end String 10			A STATE OF THE PARTY OF THE PAR		
Crane Path 8 start point	740134.57	8170490.69			name 0-15-07
Crane Path 8 mid point	740210.47	8170693.08			added 6-12-07
Crane Path 8 mid point	740214.68	8170773.19	Committee of the last of the street of the street of the state of the street of the st	A MATERIAL STREET, SERVICE STR	added 6-12-07
Crane Path 8 mid point	740164.09	8170849.08			added 6-12-07
Crane Path 8 mid point	740126.14	8170933.41			added 6-12-07
Crane Path 8 mid point	740075.54	8171135.80			added 6-12-07
Crane Path 8 mid point	740037.60	8171232.77			added 6-12-07
Crane Path 8 mid point	739961.70	8171308.67		The second secon	added 6-12-07
Crane Path 8 mid point	739817.20	8171340.94			added 6-12-07
Crane Path 8 mid point	739666.94	8171339.93			added 6-12-07
Crane Path 8 end point	739585.25	8171337.05			added 0-12-07
		the same of the sa			

	OR State Plane	ndinates , NAD83, Int'l Ft	Geodedic, NAD83	, decimal degrees	
orridor Alignment (Center Lines):	Northing (Y)	Easting (X)	Latitude	Longitude	1-31-07 edits
ec route outside (W) of String 13 in T2N R18E Sect 30 running N-S ju	st south of where Strir	ors 13 & 13a interse	ct		1
ec route near String 13, start point	717463.41	8173360.72	N 45.63454431	W 120.61235217	1
ec route near String 13, end point	716026.81	8173360.72	N 45.63060432	W 120.61234436	1
					1
ec route running E-W from Substation to String 13					1
ec route, String 13 to sub, start point	722777.69	8172393.70	N 45.64911536	W 120.61616250	
lec route, String 13 to sub, end point	722777.69	8173571.74	N 45.64911992	W 120.61155590	
lec route from tip of String 13a to intersection of Biglow Rd & Emigrant	Springs Ln				
lec route, road to String 13a, start point	716947.29	8177046.58	N 45.63314197	W 120.59794026	changed order
lec route, road to String 13a, mid point	716754.48	8176749.59	N 45.63261218	W 120.59910035	
lec route, road to String 13a, mid point	716410.86	8176466.61	N 45.63166881	W 120.60020493	
lec route, road to String 13a, mid point	715939.22	8176251.01	N 45.63037457	W 120.60104545	i .
lec route, road to String 13a, end point	715039.48	8175907.71	N 45.62790577	W 120.60238298	
elec route outside (E) of String 13 in T2N R18E Sect 19 running N-S jus					A STATE OF THE STA
elec route, String 13 to sub, start point	719403.27	8173214.82	N 45.63986397	W 120.61293315	changed order
elec route, String 13 to sub, mid point	722693.69	8173238.09	N 45.64888827	W 120.61286014	
lec route, String 13 to sub, end point	722693.69	8173571.74	N 45.64888954	W 120.61155545	
lec route from southern tip of String 14, south to Herin Ln, then west to	n Substation				1
lec route from southern tip of String 14, south to Henn Lin, then west to lec route, String 14 to sub, start point	723081.78	8175626.74	N 45.64996141	W 120.60352156	1
elec route, String 14 to sub, start point	722802.51	8175599.91	N 45.64919540	W 120.60362507	1
lec route, String 14 to sub, raid point	722862.51	8174022.56	N 45.64935424	W 120.60979346	1
neer really, outing 14 to out, one point	722002.01		11 13.01330124	77 120.00313040	
elec route on west side of String 19 and north of Emigrant Springs Ln -	has N-S and F-W see	ments			1
Elec route, near String 19, start point	716996.38	8195119.02	N 45.63331502	W 120.52728978	1
Elec route, near String 19, mid point	717031.45	8194221.78	N 45.63341031	W 120.53079742	
Elec route, near String 19, end point	715731.90	8194208.16	N 45.62984617	W 120.53084873	1
and the same of th					1
lec route from Emigrant Springs Ln, south to String 19 - short segmen	t		£/\$/\\		1
Elec route, String 19 to road, start point	714810.41	8193326.00	N 45.62731793	W 120.53429562	1
Elec route, String 19 to road, end point	714481.93	8193327.87	N 45.62641705	W 120.53428777	
					1
elec route between Strings 20 and 13 along Emigrant Springs Ln - E-W	/ only				1
Elec route, String 20 to 13, start point	714799.76	8197528.75	N 45.62729244	W 120.51786750	1
Elec route, String 20 to 13, mid point	714815.59	8193970.88	N 45.62733286	W 120.53177486	1
Elec route, String 20 to 13, mid point	714819.86	8189953.07	N 45.62733917	W 120.54748007	
Elec route, String 20 to 13, mid point	714827.62	8184029.42	N 45.62734857	W 120.57063503	
Elec route, String 20 to 13, mid point	714806.47	8181222.64	N 45.62728331	W 120.58160635	
Elec route, String 20 to 13, end point	715075.58	8173490.39	N 45.62799598	W 120.61183232	
***************************************					
Elec route from southern tip of String 3, south to Herin Ln, then east to	northern tip of String 4				
Elec route, String 3 to 4, start point	730232.70	8162937.39	N 45.66951792	W 120.65319566	changed order
Elec route, String 3 to 4, mid point	730031.04	8162791.55	N 45.66896410	W 120.65376465	
lec route, String 3 to 4, mid point	729808.02	8163389.74	N 45.66835555	W 120.65142304	
elec route, String 3 to 4, mid point	729805.41	8164025.64	N 45.66835164	W 120.64893556	
Elec route, String 3 to 4, mid point	729704.50	8164669.72	N 45.66807812	W 120.64641538	
Elec route, String 3 to 4, end point	729866.41	8164873.96	N 45.66852317	W 120.64561760	
****					
lec route from northern tip of String 4 SSE to String 8					
lec route, String 4 to 8, start point	729484.03	8164847.46	N 45.66747435	W 120.64571856	
Elec route, String 4 to 8, mid point	729184.50	8165686.69	N 45.66665698	W 120.64243371	
lec route, String 4 to 8, mid point	727911.50	8166131.89	N 45.66316785	W 120.64068364	
lec route, String 4 to 8, mid point	727607.62	8166273.51	N 45.66233512	W 120.64012761	
Elec route, String 4 to 8, mid point	727271.79	8166657.79	N 45.66141590	W 120.63862232	
lec route, String 4 to 8, mid point	727135.77	8166772.95	N 45.66104340	W 120.63817099	
Elec route, String 4 to 8, mid point	726985.47	8166838.44	N 45.66063150	W 120.63791384	
lec route, String 4 to 8, mid point	726593.07	8166947.17	N 45.65955583	W 120.63748597	
Elec route, String 4 to 8, mid point	726422.86	8167034.37	N 45.65908943	W 120.63714379	
elec route, String 4 to 8, mid point	726334.57	8167127.59	N 45.65884772	W 120.63677861	-
Elec route, String 4 to 8, end point	725937.27	8167876.26	N 45.65776154	W 120.63384794	
lec route between Strings 7 & 13 along Medler Ln - E-W only					
Elec route, String 7 to 13, start point	712542.64	8159904.41	N 45.62098536	W 120.66491881	changed order
Elec route, String 7 to 13, mid point	712500.40	8173348.87	N 45.62093279	W 120.61237151	
Elec route, String 7 to 13, end point	714805.66	8173348.18	N 45.62725516	W 120.61238674	
	40				-
Elec route from String 8 just south of Herin Ln, ESE to northern tip of S			NI 45 OFF SEE SE	14/400 000 000	**
Elec route, String 8 to 13, start point	725824.38	8168204.21	N 45.65745342	W 120.63256460	-
Elec route, String 8 to 13, mid point	724884.95	8170879.08	N 45.65488853	W 120.62209772	
Elec route, String 8 to 13, end point	724884.95	8173192.40	N 45.65489777	W 120.61305080	-
					-
Elec route between Strings 8 & 13 - E-W segment due west of Substati	THE RESERVE THE PROPERTY OF THE PARTY OF THE	0474747.00	NI AE CADOZOCO	141.400.04000010	-
Elec route, String 8 to 13, start point	722765.69	8171747.22	N 45.64907988	W 120.61869042	
Elec route, String 8 to 13, end point	722765.69	8166682.39	N 45.64905777	W 120.63849589	-
The reads from weathern his of Otion 0 on MF - II was a to Otion 0	armed to Create a figure	n none plants to the	to ourself		
Elec route from northern tip of String 8 on NE alignment to String 9 (refe				W 120 62457460	-
Elec route, String 8 to 9, start point	734384.75	8168471.23	N 45.68093184	W 120.63157482	
Elec route, String 8 to 9, end point	733195.28	8167647.63	N 45.67766595	W 120.63478947	
The saids between as there is of Chica Die Mades I and the Chica					
Elec route between southern tip of String 8 to Medler Ln - short N-S se		0400004.07	NI 45 COCCOECO	14/ 420 04400244	
Elec route, String 8 to Medler Ln, start point	713114.56	8166024.37	N 45.62258568	W 120.64100314	
Elec route, String 8 to Medler Ln, end point	712530.28	8165942.81	N 45.62098285	W 120.64131792	-
Elec route from southern tip of String 9, south to Herin Ln, then east to	Substation				
	OUDSTATION		1		
Elec route, String 9 to Sub, start point	726647.95	8173341.16	N 45.65973347	W 120.61247863	

	OR State Plane,	NAD83, Int'l Ft	Geodedic, NAD83	3, decimal degrees	
Corridor Alignment (Center Lines):	Northing (Y)	Easting (X)	Latitude	Longitude	1-31-07 edits
Elec route, String 9 to Sub, mid point	726206.64	8173284.74	N 45.65852294	W 120.61269689	
Elec route, String 9 to Sub, mid point	726116.34	8173328.34	N 45.65827545	W 120.61252587	
Elec route, String 9 to Sub, mid point	725936.28	8173376.93	N 45.65778181	W 120.61233486	
Elec route, String 9 to Sub, mid point	725704.54	8173317.38	N 45.65714602	W 120.61256649	
Elec route, String 9 to Sub, mid point	725605.15	8173188.68	N 45.65687295	W 120.61306929	
Elec route, String 9 to Sub, mid point	722894.96	8173169.52	N 45.64944000	W 120.61312938	
Elec route, String 9 to Sub, end point	722879.62	8173572.69	N 45.64939947	W 120.61155273	
Met Tower corridors - 200' wide for temporary access roads, met to	upm and SCADA(a)	actrical muting			
Met 1 corridor, start point Met 1 corridor, end point	728032.40 728235.04	8173667.35 8173122.58	N 45.66353164 N 45.66408531	W 120.61121031 W 120.61334223	
Mat O and an atalasist	705050.00	0407000 04	N 45 00000445	141 400 007005 40	
Met 2 corridor, start point	735258.39	8167008.04	N 45.68332115	W 120.63730549	
Met 2 corridor, end point	735271.17	8167647.90	N 45.68335915	W 120.63480196	
Met 3 corridor, start point	718681.39	8166015.19	N 45.63785312	W 120.64107701	
Met 3 corridor, end point	718645.96	8165061.71	N 45.63775132	W 120.64480450	
THOSE O CONTROL ON A POINT	710040.00	0100001.71	1140.00770102	VV 120.04400400	
Met 4 corridor, start point	709218.63	8165276.37	N 45.61189711	W 120.64389962	
Met 4 corridor, end point	709209.00	8165788.40	N 45.61187318	W 120.64189863	
Met 5 corridor, start point	715763.66	8194232.36	N 45.62993330	W 120.53075418	
Met 5 corridor, end point	716585.64	8194240.98	N 45.63218766	W 120.53072170	
************	***************************************				
Met 6 corridor, start point	722592.89	8188948.93	N 45.64865563	W 120.55142449	
Met 6 corridor, end point	722364.74	8189455.29	N 45.64803078	W 120.54944389	
Met 7 corridor, start point	717446.75	8180320.51	N 45.63452195	W 120.58514356	changed order
Met 7 corridor, mid point	717649.42	8180509.19	N 45.63507833	W 120.58440676	- x , y = (y = 0 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 +
Met 7 corridor, mid point	717801.24	8180767.94	N 45.63549545	W 120.58339581	
Met 7 corridor, end point	717830.53	8181066.51	N 45.63557662	W 120.58222868	
Met 8 corridor, start point	727880.72	8183810.12	N 45.66314711	W 120.57153743	
Met 8 corridor, end point	728147.49	8184320.59	N 45.66387996	W 120.56954169	
Met 9 corridor, start point	729982.64	8156193.96	N 45.66879403	W 120.67957242	changed order
Met 9 corridor, mid point	730016.89	8156309.69	N 45.66888867	W 120.67912001	
Met 9 corridor, mid point	729943.17	8156600.49	N 45.66868825	W 120.67798184	
Met 9 corridor, mid point	729718.10	8156798.84	N 45.66807218	W 120.67720401	
Met 9 corridor, mid point	729435.22	8156898.75	N 45.66729697	W 120.67681077	
Met 9 corridor, mid point	729135.53	8156885.24	N 45.66647497	W 120.67686105	
Met 9 corridor, end point	728913.38	8156825.04	N 45.66586536	W 120.67709463	
Manual de Contrara Della Andrea della	700004 77	0470404.07	N 45 0 4000 400	141 400 0000 4400	abases decades
Met 10 access road (to Oehman Rd), start point	723031.77	8170404.67	N 45.64980409	W 120.62394192	changed order
Met 10 access road, end point Met 10 corridor (to String 13), start point	723031.77	8170666.24	N 45.64980519	W 120.62291906	
Met 10 corridor, mid point	723031.77 722798.77	8170681.24 8170677.36	N 45.64980525	W 120.62286041 W 120.62287419	
Met 10 corridor, and point	722798.77	8171675.79	N 45.64916621 N 45.64917031	W 120.62287419 W 120.61896993	
Met 10 Contact, etc. point	122190.11	01/10/3./9	14 40.049 17 03 1	¥¥ 120.01030333	
Access Roads (permanent), 200' wide corridors					
Access road from the northern tip of String 12 east to Oehman Rd - shor		0.1755.40.07	11 15 000 107 10	144 400 00 45 4400	
Access road N end String 12, start point	717053.43	8170249.87	N 45.63340740	W 120.62451122	
Access road N end String 12, end point	717053.43	8170327.24	N 45.63340773	W 120.62420876	
Access mad from eastern and of China 42a	***************************************		-		
Access road from eastern end of String 13a west to Biglow Rd	717400 20	9170094 07	N AF COACCETE	W 120 E0040200	
Access road, String 13a to W, start point	717488.38	8176984.97	N 45.63462575	W 120.59818368	
Access road, String 13a to W, end point	717528.87	8175838.60	N 45.63473288	W 120.60266550	
Between Emigrant Springs Ln and String 13b, there are 4 access roads	(E-W) connecting WT	G sites to N Klondik	e Rd.		
The 4 access roads are labeled below as Driveways 1-4 in order from no			***************************************		
Driveway 1, String 13 to Klondike Rd, start point	714417.08	8173180.77	N 45.62618881	W 120.61303900	
Driveway 1, String 13 to Klondike Rd, end point	714417.08	8173143.45	N 45.62618867	W 120.61318488	
Driveway 2, String 13 to Klondike Rd, start point	713659.86	8173180.77	N 45.62411207	W 120.61303486	
Driveway 2, String 13 to Klondike Rd, end point	713659.86	8173080.90	N 45.62411168	W 120.61342522	
***************************************	1				
Driveway 3, String 13 to Klondike Rd, start point	712977.12	8173173.36	N 45.62223956	W 120.61306009	
Driveway 3, String 13 to Klondike Rd, end point	712977.12	8173082.36	N 45.62223921	W 120.61341577	
D	71000111		h) 45 000000	111.100.015	
Driveway 4, String 13 to Klondike Rd, start point	712201.17	8172563.30	N 45.62010908	W 120.61544020	
Driveway 4, String 13 to Klondike Rd, end point	712199.37	8173167.41	N 45.62010649	W 120.61307909	
Access and from an there against (-1 -1 -1) of Otion 4.4 11 11 11	through middle of 5	40E TON 01 40			
Access road from southern portion (not end) of String 14 west to Herin L			N 45 GEGSTATE	W 400 00000 157	about the
Access road, String 14 to W, start point	725492.10	8176275.89	N 45.65657412	W 120.60099487	changed order
Access road, String 14 to W, mid point	725576.72	8174051.36	N 45.65679824	W 120.60969526	
Access road, String 14 to W, mid point	725234.94	8173494.75	N 45.65585879	W 120.61187027	
Access road, String 14 to W, end point	725232.77	8173259.65	N 45.65585194	W 120.61278970	
Access mad hatwash southern tin of Ctring 150 and Ctring 15			-		
Access road String 15 to 15a start point	722274 50	9190704 74	N AS SATTERNO	W 120 57577402	channed andre
Access road, String 15 to 15a, start point	722274.58	8182721.71	N 45.64776920	W 120.57577403 W 120.57245085	changed order
Access road, String 15 to 15a, mid point Access road, String 15 to 15a, mid point	722673.42	8183571.92	N 45.64886518 N 45.64979148	W 120.5/245085 W 120.56846361	
Access road, String 15 to 15a, mid point Access road, String 15 to 15a, mid point	723010.28 723234.24	8184591.86 8184975.80	N 45.65040659	W 120.56696296	
	723969.47	8185555.70	N 45.65242430	W 120.56469757	
Access mad. String 15 to 15a, mid point		0100000.70	17 70.00292400	17 120,00703101	
Access road, String 15 to 15a, mid point Access road, String 15 to 15a, end point	724476.62	8185873.59	N 45.65381589	W 120.56345598	

	OR State Plane	, NAD83, Int'i Ft	Geodedic NAD83	3, decimal degrees	
corridor Alignment (Center Lines):	Northing (Y)	Easting (X)	Latitude	Longitude	1-31-07 edits
coess road, String 2 to Herin Ln, start point	730480.38	8158448.52	N 45.67017251	W 120.67075726	
	CONTRACTOR OF THE PARTY OF THE				
ccess road, String 2 to Herin Ln, mid point	730700.05	8158515.03	N 45.67077535	W 120.67049890	
coess road, String 2 to Herin Ln, mid point	730851.86	8158714.06	N 45.67119285	W 120.66972157	
ccess road, String 2 to Herin Ln, end point	731044.80	8158831.95	N 45.67172267	W 120.66926197	
ccess road between southern tip of String 3 and Herin Ln - short segme	ant				
		0400000 47	N 45 00005047	10/ 400 PE 444040	
ccess road, String 3 to Herin Ln, start point	729992.84	8162626.47	N 45.66885847	W 120.65441012	
ccess road, String 3 to Herin Ln, end point	730221.34	8162948.57	N 45.66948682	W 120.65315184	
record mad that current to past side of the southern parties of China 9	DATE TON Cord OF				
coess road that curves to east side of the southern portion of String 8 in			NI 45 COSCODAR	14/ 400 00004004	
ccess road, near String 8, start point	714351.46	8166482.73	N 45.62598016	W 120.63921994	
ccess road, near String 8, mid point	714631.56	8166613.69	N 45.62674898	W 120.63870992	
ccess road, near String 8, end point	714869.48	8166448.01	N 45.62740071	W 120.63935914	
	***************************************				
ccess road from southern tip of String 8, SSW to Medler Ln	710100 00	0101000 00	11 45 00070040		
ccess road, String 8 to Medler Ln, start point	712430.03	8164973.27	N 45.62070319	W 120.64510662	changed order
ccess road, String 8 to Medler Ln, mid point	712549.45	8164999.47	N 45.62103084	W 120.64500506	
ccess road, String 8 to Medler Ln, mid point	712683.78	8165147.14	N 45.62139997	W 120.64442884	
ccess road, String 8 to Medler Ln, end point	713117.38	8166007.42	N 45.62259333	W 120.64106941	
ccess road between northern tip of String 9 and Helm Ln					
ccess road, String 9 to Helm Ln, start point	738278.41	8168128.96	N 45.69160879	W 120.63293905	
ccess road, String 9 to Helm Ln, mid point	739551.19	8168126.15	N 45.69509941	W 120.63295825	
ccess road, String 9 to Helm Ln, end point	739758.86	8168088.45	N 45.69566878	W 120.63310713	
*********					
ccess road, String 10 to Helm Ln, start point	737728.91	8171066.47	N 45.69011445	W 120.62144038	added 3-2-2007
Access road, String 10 to Helm Ln, start point	737718.13	8170541.63	N 45.69008270	W 120.62349413	added 3-2-2007
ccess road, String 10 to Fox Rd, start point	735151.46	8172377.09	N 45.68305100	W 120.61629710	added 5-24-07
Access road, String 10 to Fox Rd, mid point	735200.03	8172435.07	N 45.68318443	W 120.61607052	added 5-24-07
Access road, String 10 to Fox Rd, mid point	735251.72	8172512.48	N 45.68332650	W 120.61576792	added 5-24-07
Access road, String 10 to Fox Rd, mid point	735338.50	8172681.77	N 45.68356516	W 120.61510601	added 5-24-07
ccess road, String 10 to Fox Rd, find point	735372.69	8172771.65	N 45.68365928	W 120.61475452	added 5-24-07
noose rous, during to to rox ros, end politic	730372.09	01/2//1.00	14 40.00003928	17 120.014/0402	
Combined Access Road (200' wide) / Electrical Route (250' wide) co	oridors				
Committed Access Road (200 Wide) / Electrical Roade (200 Wide) Co	I				
routh curving outside (W) of Shirty (Call Fox Rd					
he must near String 10, start point	725044 50	0474500 00	N 45 69440021	W 120.61936856	Market I and I sent the same of
	735644.56	8171592.83	N 45.68440021		removed road -discorry 5.5
near String 10, mid point	735470.17	8171135.45	N 45.68392007	W 120.62115719	road - elec only 5-2
route near String 10, mid point	735381.00	8171125.00	N 45.68367548	W 120.62119755	re no ed road - elec only 5-2
route near String 10, mid point	735305.29	8171165.98	N 45.68346801	W 120.62103676	re noved road - elec only 5-2
los roule near Sirina 10, end soint	735310.20	8171474.90	N 45.68348274	W 120.61982806	removed rand - electrily 52
access road/elec route that curves to NE side of String 1 (intersects with					
Access road/elec route, near String 1, start point	728927.14	8156529.85	N 45.66590131	W 120.67824939	
Access road/elec route, near String 1, mid point	728886.24	8156778.50	N 45.66579064	W 120.67727644	
ccess road/elec route, near String 1, mid point	728795.69	8156973.56	N 45.66554348	W 120.67651268	
Access road/elec route, near String 1, mid point	728581.79	8157060.42	N 45.66495737	W 120.67617110	
Access road/elec route, near String 1, mid point	728323.48	8157068.25	N 45.66424898	W 120.67613827	
ccess road/elec route, near String 1, end point	728133.37	8157020.82	N 45.66372731	W 120.67632217	
ccess road/elec route between southern tips of Strings 1 & 2					
Access road/elec route, String 1 to 2, start point	727134.42	8157869.50	N 45.66099267	W 120.67299427	changed order
Access road/elec route, String 1 to 2, mid point	727164.01	8160377.05	N 45.66108813	W 120.66318695	
access road/elec route, String 1 to 2, mid point	727607.71	8161097.31	N 45.66230896	W 120.66037330	
ccess road/elec route, String 1 to 2, and point	727932.53	8161088.41	N 45.66319975	W 120.66041063	
				1	
ccess road/elec route between southern tip of String 9 and Herin Ln in	N-S alignment				
Access road/elec route, String 9 to Herin Ln, start point	726676.54	8173463.33	N 45.65981234	W 120.61200096	changed order
Access road/elec route, String 9 to Herin Ln, mid point	726324.57	8173352.37	N 45.65884662	W 120.61243302	- Samuel Color
Access road/elec route, String 9 to Herin Ln, mid point	726122.76	8173419.64	N 45.65829340	W 120.61216883	
Access road/elec route, String 9 to Herin Ln, mid point	725936.43	8173464.38	N 45.65778255	W 120.61199284	
Access road/elec route, String 9 to Herin Ln, mid point	725668.78	8173400.77	N 45.65704827	W 120.61224017	
Access road/elec route, String 9 to Herin Ln, mid point	725562.55	8173272.28	N 45.65675643	W 120.61274210	
nasses received roots, ourng a to right an, and posit	120002.00	0170212.20	11 40.000/ 3043	17 120.01214210	
cross martislar mute hetween on them tin of Ctring 44 and Ctring 0					
Access road/elec route between southern tip of String 11 and String 9	724002.04	0172255 45	N 45 67400050	W 120.61283814	
Access road/elec route, String 9 to 11, start point	731093.94	8173255.45	N 45.67192650		
Access road/elec route, String 9 to 11, mid point	731303.48	8174136.31	N 45.67250450	W 120.60939335	
Access road/elec route, String 9 to 11, mid point	731965.67	8175722.10	N 45.67432630	W 120.60319303	
Access road/elec route, String 9 to 11, end point	732001.27	8176054.71	N 45.67442510	W 120.60189199	
	in D475 Tolico				
Access road/elec route connecting north side of Medler Ln with String 1.				141.400.007.1170	
Access road/elec route, String 12 to Medler Ln, start point	712726.80	8169499.51	N 45.62153804	W 120.62741794	
Access road/elec route, String 12 to Medler Ln, end point	712429.08	8169498.07	N 45.62072151	W 120.62742173	
					detate as to see the
anner mediales must that outs CE access of intermedian between Chic	igs 13 & 13a - short s	segment			delete- now in corridor
Access load/elec route triat cuts SE comer of intersection between Strit	************				
Access road/elec route that cuts SE comer of intersection between Strir					
Access road/elec route between southern tip of String 14 and Herin Ln -			N 45.64932530	W 120.60302111	
Access road/elec route between southern tip of String 14 and Herin Ln -	short N-S segment 722849.68	8175754.42			
Access road/elec route between southern tip of String 14 and Herin Ln - Access road/elec route, String 14 to Herin Ln, start point		8175754.42 8175776.04	N 45.64993280	W 120.60293767	
Access road/elec route between southern tip of String 14 and Herin Ln - Access road/elec route, String 14 to Herin Ln, start point	722849.68		N 45.64993280	W 120.60293767	
Access road/elec route between southern tip of String 14 and Herin Ln - Access road/elec route, String 14 to Herin Ln, start point Access road/elec route, String 14 to Herin Ln, end point	722849.68 723071.16	8175776.04	N 45.64993280	W 120.60293767	
Access road/elec route between southern tip of String 14 and Herin Ln - Access road/elec route, String 14 to Herin Ln, start point Access road/elec route, String 14 to Herin Ln, end point Access road/elec route between southern tip of String 16 and Emigrant	722849.68 723071.16 ———————————————————————————————————	8175776.04	N 45.64993280 N 45.62712779	W 120.60293767	
Access road/elec route between southern tip of String 14 and Herin Ln - Access road/elec route, String 14 to Herin Ln, start point Access road/elec route, String 14 to Herin Ln, end point Access road/elec route between southern tip of String 16 and Emigrant Access road/elec route, String 16 to Emig Sp Ln, start point	722849.68 723071.16 	8175776.04 S segment 8184178.08	N 45.62712779	W 120.57005366	
Access road/elec route between southern tip of String 14 and Herin Ln - Access road/elec route, String 14 to Herin Ln, start point Access road/elec route, String 14 to Herin Ln, end point Access road/elec route between southern tip of String 16 and Emigrant Access road/elec route, String 16 to Emig Sp Ln, start point	722849.68 723071.16 ———————————————————————————————————	8175776.04  S segment			
Access road/elec route between southern tip of String 14 and Herin Ln - Access road/elec route, String 14 to Herin Ln, start point Access road/elec route, String 14 to Herin Ln, end point Access road/elec route between southern tip of String 16 and Emigrant Access road/elec route, String 16 to Emig Sp Ln, start point Access road/elec route, String 16 to Emig Sp Ln, end point	722849.68 723071.16 ———————————————————————————————————	8175776.04 S segment 8184178.08 8184182.38	N 45.62712779	W 120.57005366	
Access road/elec route between southern tip of String 14 and Herin Ln - Access road/elec route, String 14 to Herin Ln, start point Access road/elec route, String 14 to Herin Ln, end point Access road/elec route between southern tip of String 16 and Emigrant Access road/elec route, String 16 to Emig Sp Ln, start point Access road/elec route, String 16 to Emig Sp Ln, end point Access road/elec route between northern tip of String 16 and southern tip	722849.68 723071.16 Springs Ln - short N- 714746.99 715001.34	8175776.04 S segment 8184178.08 8184182.38	N 45.62712779 N 45.62782538	W 120.57005366 W 120.57003771	
Access road/elec route that cuts 32 comer of intersection between surfacess road/elec route, String 14 to Herin Ln, start point Access road/elec route, String 14 to Herin Ln, end point Access road/elec route, String 14 to Herin Ln, end point Access road/elec route between southern tip of String 16 and Emigrant Access road/elec route, String 16 to Emig Sp Ln, start point Access road/elec route, String 16 to Emig Sp Ln, end point Access road/elec route between northern tip of String 16 and southern the Access road/elec route, String 16 to 17, start point Access road/elec route, String 16 to 17, start point	722849.68 723071.16 ———————————————————————————————————	8175776.04 S segment 8184178.08 8184182.38	N 45.62712779	W 120.57005366	

Miscellaneous Pro			<b>第二日本語為於的</b> 語	
		, NAD83, Int'l Ft		3, decimal degrees
Corridor Alignment (Center Lines):	Northing (Y)	Easting (X)	Latitude	Longitude
Access road/elec route, String 16 to17, mid point	721364.41	8189303.08	N 45.64528704	W 120.5500366
Access road/elec route, String 16 to17, end point	721434.71	8189356.33	N 45.64547994	W 120.5498286
Access road/elec route between southern portion of String 2 and middle of	String A			-
Access road/elec route, String 2 to 4, start point	728349.13	8161006.39	N 45.66434185	W 120.6607346
Access road/elec route, String 2 to 4, mid point	728413.41	8161092.33	N 45.66451861	W 120.6603990
Access road/elec route, String 2 to 4, mid point	728426.59	8162599.66	N 45.66456281	W 120.6545032
Access road/elec route, String 2 to 4, mid point	727566.68	8163206.08	N 45.66220762	W 120.6521249
Access road/elec route, String 2 to 4, mid point	727398.68	8163444.11	N 45.66174810	W 120.6511927
Access road/elec route, String 2 to 4, mid point	727341.51	8163749.24	N 45.66159286	W 120.649998
Access road/elec route, String 2 to 4, end point	727341.51	8163929.55	N 45.66159378	W 120.6492936
Access road/elec route between southern tip of String 4 and middle of String				
Access road/elec route, String 4 to 8, start point	723963.49	8164201.59	N 45.65233074	W 120.648205
Access road/elec route, String 4 to 8, end point	723201.54	8166221.61	N 45.65025093	W 120.6403000
Access and lales and a behavior on them to of China 5 and China 9				
Access road/elec route between southern tip of String 5 and String 8 Access road/elec route, String 5 to 8, start point	720823.37	8163001.45	N 45.64371262	W 120.652875
Access road/elec route, String 5 to 8, start point  Access road/elec route, String 5 to 8, mid point	720258.10	8164443.85	N 45.643/1262 N 45.64216967	W 120.647231
Access road/elec route, String 5 to 8, mid point	719993.75	8165669.22	N 45.64145070	W 120.642438
Access road/elec route, String 5 to 8, end point	719993.75	8166125.52	N 45.64145509	W 120.640654
		0100120.02	11 40.04 [40003	11 ,20.010004
Access road/elec route between northern tip of String 6 and String 8				
Access road/elec route, String 6 to 8, start point	717330.44	8163570.51	N 45.63413593	W 120.6506249
Access road/elec route, String 6 to 8, mid point	717753.46	8163649.73	N 45.63529650	W 120.6503183
Access road/elec route, String 6 to 8, end point	717756.68	8166303.53	N 45.63531841	W 120.639943
***************************************	*********			
Access road/elec route connecting S side of Medler Ln and String 7				
Access road/elec route, String 7 to Meder Ln, start point	711928.65	8160810.96	N 45.61930646	W 120.661370
Access road/elec route, String 7 to Meder Ln, mid point	712146.75	8161030.66	N 45.61990581	W 120.660513
Access road/elec route, String 7 to Meder Ln, mid point	712265.58	8161087.24	N 45.62023202	W 120.660293
Access road/elec route, String 7 to Meder Ln, end point	712443.65	8161088.96	N 45.62072041	W 120.660288
Access road/elec route that curves outside the W edge of the upper portion	n of String C (	and of Pay Constant	in P17E TON Seed 1	
Access road/elec route, near String 9, start point	736489.73	8167564.98	N 45.68670072	W 120.635134
Access road/elec route, near String 9, mid point	736259.01	8166763.97	N 45.68606424	W 120.638267
Access road/elec route, near String 9, mid point	736126.14	8166628.33	N 45.68569920	W 120.638797
Access road/elec route, near String 9, mid point	735984.09	8166643.95	N 45.68530970	W 120.638734
Access road/elec route, near String 9, mid point	735881.69	8166743.64	N 45.68502933	W 120.638344
Access road/elec route, near String 9, mid point	735620.57	8167361.57	N 45.68431608	W 120.635924
Access road/elec route, near String 9, end point	735594.39	8167458.25	N 45.68424473	W 120.635546
	************			
Staging Areas, coordinates at center of approximate area (S2 = 2 acre	area; S5 = 5 acr	e area)		
S2-2 (near northern end of String 2 along south side of Herin Ln)	730816.4091	8158891.958	N 45.67109664	W 120.6690253
S2-2a (near southern end of String 2)	728511.1344	8160855.131	N 45.66478533	W 120.661327
S2-3 (near southern end of String 3 along north side of Herin Ln)	730243.1255	8162730.194	N 45.66954543	W 120.6540062
S2-4 (near northern end of String 4 along south side of Herin Ln)	729333.4188	8165137.587	N 45.66706272	W 120.6445826
S2-5 (near southern end of String 5)	720714.9238	8163653.824	N 45.64341855	W 120.6503238
S2-6 (near northern end of String 6)	717511.1692	8163759.563	N 45.63463256	W 120.649887
S2-7 (inside String 7 along N side of Medler Ln)	712672.2989	8160187.496	N 45.62134254	W 120.663813
S2-7a (near String 7 along S side of Medler Ln)	712288.3585	8161234.805	N 45.62029530	W 120.6597170
S2-8 (along W edge of String 8 along N side of Herin Ln) S2-8a (along W edge of String 8 along S side of Herin Ln)	726401.7576	8167894.896 8167669.574	N 45.65903551	W 120.6337780
S2-8b (near southern end of String 8 along N side of Medler Ln)	725998.8475 712703.9351	8167669.574 8164867.479	N 45.65792948 N 45.62145387	W 120.6346566 W 120.6455220
S2-9 (north of String 9 along south side of Helm Ln)	739533.2941	8167908.661	N 45.69504935	W 120.633809
S2-9a (along SW edge of String 9 along N side of Oehman Rd)	732807.8521	8170949.982	N 45.67661780	W 120.621867
S2-9b (in String 9 along N side of Oehman Rd - NE of S2-9a)	732992.7706	8171284.551	N 45.67712632	W 120.621667
S2-9c (near southern end of String 9 along E side of Herin Ln)	725410.1725	8173409.445	N 45.65633905	W 120.612204
S2-10 (W of String 10 along E side of Herin Ln in R18E T2N Sect 6)	737518.4193	8170711.168	N 45.68953570	W 120.622829
S2-11 (SW of southern end of String 11)	731877.1427	8174993.126	N 45.67408093	W 120.606044
S2-12 (in String 12 along N side of Medler Ln)	712725.507	8169181.856	N 45.62153312	W 120.628659
S2-12a (in String 12 along S side of Medler Ln)	712261.7115	8168394.482	N 45.62025763	W 120.631733
S2-13 (W of northern end of String 13 along Oehman Rd)	724641.4863	8170582.949	N 45.65421959	W 120.623254
S2-13a (E of northern end of String 13b along N Klondike Rd)	711959.7051	8172967.722	N 45.61944842	W 120.6138582
S2-14 (near southern end of String 14 along S side of Herin Ln)	722671.0491	8176036.139	N 45.64883638	W 120.601918
S2-15 (near E edge of String 15 along N side of Emigrant Springs Ln)	715004.3987	8180484.188	N 45.62782407	W 120.5844936
S2-15a (in String 15 along S side of Emigrant Springs Ln)	714602.9632	8180017.612	N 45.62672174	W 120.586315
S2-16 (between southern end of String 16 and Emigrant Springs Ln)	715012.1268	8184357.677	N 45.62785538	W 120.569352
S2-18 (on E edge of String 18 along S side of Emigrant Springs Ln)	714569.9032	8190225.23	N 45.62665407	W 120.546415
S2-19 (on W edge of String 19 along N side of Emigrant Springs Ln) S2-19a (on E edge of String 19 along N side of Emigrant Springs Ln)	714951.5851	8193654.415	N 45.62770549	W 120.533012
S2-19a (on E edge of String 19 along N side of Emigrant Springs Ln) S2-20 (at southern end of String 20 along N side of Emigrant Springs Ln)	714948.8182	8194140.805 8197958.751	N 45.62769843	W 120.531110
oz-zo (at southern end or ouring zo along in side of Emigrant Springs En	714882.6955	019/906/01	N 45.62752015	W 120.516186
S5-9 (along NE edge of String 9 along SE side of Oehman Rd)	732041 7962	8171946.238	N 45.67698917	W 120 617070
S5-12 (E of String 12, N of Medler Ln, along W side of Oehman Rd)	732941.7863 713446.5661	8171946.238	N 45.62351453	W 120.617970 W 120.625176
S5-12 (E of String 12, N of Medier Lh, along W side of Cenman Rd) S5-13 (near northern end of String 13 along W side of Cehman Rd)	724437.7948	8170074.016	N 45.65365915	W 120.624928
S5-13a (E of String 13 along N side of Emigrant Springs Ln)	715230.3482	8174200.051	N 45.62842311	W 120.609059
S5-15 (near W edge of String 15 along N side of Emigrant Springs Ln)	715131.3636	8179616.672	N 45.62816974	W 120.587885
	715046.9448	8189544.651	N 45.62796130	W 120.549077
S5-18 (near W edge of String 18 along N side of Emigrant Springs I n)				1
S5-18 (near W edge of String 18 along N side of Emigrant Springs Ln)			The same of the sa	
S5-18 (near W edge of String 18 along N side of Emigrant Springs Ln)  Other Project Features (Center Coordinates)				
******	722680.288	8174010.158	N 45.64885443	W 120.609840

1-31-07 edits

changed order

changed order

road - elec only 6-12-07 road - elec only 6-12-07





Western EcoSystems Technology, Inc. P.O. Box 2095, Walla Walla, WA 99362 Phone & Fax: 509.529.7523. WWW.west-inc.com

#### TECHNICAL MEMORANDUM

Date:

May 24, 2007

To:

Rick Tetzloff, PGE

From:

Jay Jeffrey, WEST, Inc.

Subject:

**Biglow Canyon Wind Farm** 

TES Wildlife Spring 2007 – Additional Areas Survey

We have completed surveys for threatened, endangered, or sensitive (TES) wildlife species that could potentially occur in those areas identified as not being previously surveyed in the permitted Biglow Canyon Wind Farm (Figure 1 and 2). This memorandum reports results of spring 2007 surveys. No state or federally protected or sensitive-classified species were observed. Details of the surveys are as follows. The areas identified were each surveyed twice in May 2007 following the same methods identified in the 2005 Oregon EFSC Site Certificate Application for the Biglow Canyon Wind Farm, Sherman County, Oregon. These methods were previously discussed and approved by the Oregon Department of Fish and Wildlife (ODFW). Results of the surveys are as follows.

Table 1. Biglow Canyon Additional Areas Survey – TES Wildlife, May 2007.

Area	Dates Surveyed	General Habitat	TES Presence
A	PREVIOUSLY SURVEYED 2006		
В	May 7 and 15, 2007	Narrow draw surrounded by ag fields; degraded with non-native veg	NO TES
C	May 7, 2007 <sup>a</sup>	100% Wheat	NO TES
D	May 8 and 15, 2007	Native veg in patches and small draws within ag field; degraded with non-native veg	NO TES
Е	PREVIOUSLY SURVEYED 2005		
F	May 15 and 17, 2007	Limited native habitat at Fox road and east in Fox Canyon drainage; degraded	NO TES

<sup>&</sup>lt;sup>a</sup>No second survey conducted due to lack of habitat.

PGE Biglow Canyon Wind Farm Technical Memo, TES Results, May 2007

Results of the surveys do not raise additional concerns for the project. No raptor nests, burrowing owls, or shrub-steppe obligate species were located that may have required construction delays, avoidance, or mitigation. This letter is intended to report completion of the sensitive wildlife species surveys for all areas of the final layout of the Biglow Canyon Wind Farm. Please address any questions regarding this report to myself:

Jay D. Jeffrey WEST, Inc

Office: 509.529.7523 Cell: 509.386.0450

Email: jjeffrey@west-inc.com

Sincerely, (アイン) Jay Jeffrey Research Coordinator/Ecologist

cc: Wally Erickson, WEST

Figure 1. Additional 2007 TES Wildlife survey areas A-E.

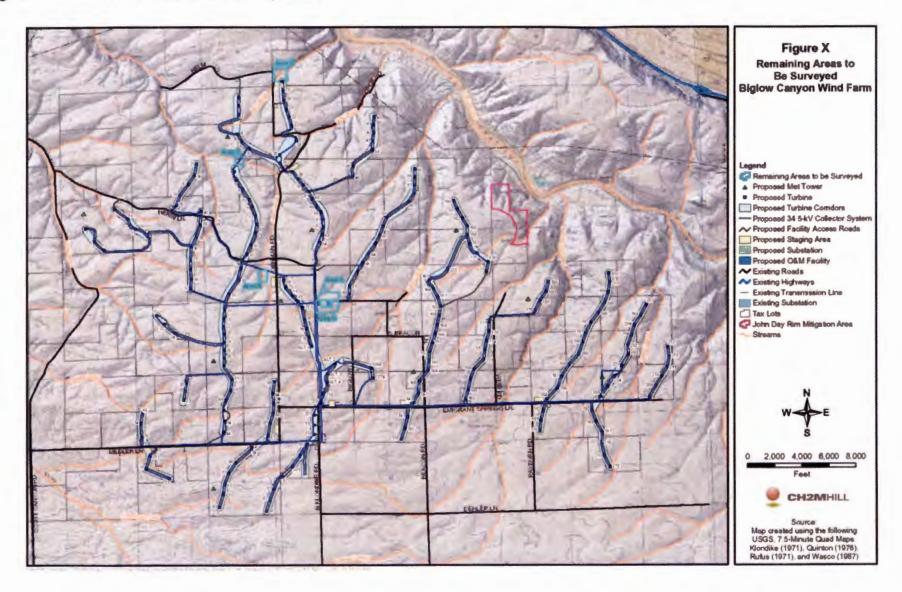


Figure 2. Additional 2007 TES Wildlife survey area F (Turbine 34 to Fox Road; left below). Na51-41' 01.43" m20" 361 56.95" SCALE: 1"=500" **BIGLOW CANYON** ACCESS ROAD FROM FOX RD TO TURBINE 34 APPROVALS SCA E: 1" 50' Salp Amendi D-SIZE

Page 4 of 4

Findings: (-)

County: Sherman

Township, Range, Section: T1N, R18E, Section 6;

T3N, R18E, Section 31;

T3N, R17E, Section 36

USGS Quad: Quinton, Oreg.-Wash., 7.5', 1971
Total Project Acres: 10

Total Acres Surveyed: 10
Project Type: Survey
Field Notes Location: AINW

# A CULTURAL RESOURCE SURVEY

FOR THE BIGLOW CANYON WIND FARM

SUPPLEMENT 3

SHERMAN COUNTY, OREGON

Prepared for Portland General Electric Portland, Oregon

May 24, 2007

REPORT NO. 1926

Archaeological Investigations Northwest, Inc.



#### TECHNICAL MEMORANDUM

# Biglow Canyon Wind Farm - Supplemental Wetlands and Waters Determination and Rare Plant Habitat Survey

PREPARED FOR:

Rick Tetzloff/PGE

PREPARED BY:

Nichole Coulter, Peggy O'Neill and Joel Shaich/CH2M HILL

**COPIES:** 

Mike Pappalardo/CH2M HILL

DATE:

May 24, 2007

## **Summary**

CH2M HILL conducted a wetland and waters determination for the proposed Biglow Canyon Wind Farm in the summer of 2005. Supplemental determinations were performed in both the summer and winter of 2006 based on the addition of a collector line in the project area. Results of previous field work efforts can be found in the original wetland and rare plant tech memo (July 2006), the EFSC Application (February 2006), and the collection line and access roads tech memo (December 2006). This memo serves as an amendment to the three existing reports discussed above.

The purpose of this determination was to investigate additional changes to the December 2006 facilities layout (Site Certificate Amendment 2) and to satisfy the site certificate Condition 55 criteria of performing a spring survey for rare plant species. CH2M HILL conducted site visits on May 7 and May 22, 2007 to determine the presence and extent of wetlands and/or jurisdictional waters, as defined under Section 404 of the Clean Water Act and the Oregon Removal-Fill Law. Suitable habitat for and presence of federal and state listed plant species were also investigated. Study Areas A, B, C, D, E and F (Figure 1) were investigated for the potential presence of federal and/or state listed plant species. Study Areas C, D and F were also investigated for the presence of potentially jurisdictional wetlands and/or waters (Figure 1).

No jurisdictional wetlands were identified within the study areas. One potentially jurisdictional water was identified at Study Area D. Study Area D includes one intermittent stream (Drainage D), which is a tributary of the John Day River. Impacts to the potentially jurisdictional water identified at Drainage D will be avoided as no fill or removal will occur at this drainage. Study Area F includes one intermittent stream (Drainage F), which is a tributary of the John Day River. However, the Department of State Lands previously determined (Appendix B) that this drainage is non-jurisdictional and exempt from state permit requirements.

No federal or state listed plant habitat or species were identified within any of the study areas (A-F).

#### **Methods**

#### Office Review

Prior to conducting the site investigation, the following documents were reviewed:

- U.S. Geological Survey (USGS) Topographic Map, Klondike, Oregon quadrangle (USGS, 1971); Quinton, Oregon quadrangle (USGS, 1976); Rufus, Oregon quadrangle (USGS, 1971); Wasco, Oregon quadrangle (USGS, 1987)
- National Wetland Inventory (NWI) Map, Klondike, Oregon quadrangle (USFWS, 1991);
   Quinton, Oregon quadrangle (USFWS, 1983);
   Wasco, Oregon quadrangle (USFWS, 1988)
- Natural Resource Conservation Service (NRCS) Soil Survey of Sherman County, Oregon (NRCS, 1992)
- Hydric Soils List: Sherman County, Oregon (NRCS, 2000)
- Oregon Natural Heritage Information Center (ORNHIC) Species List (April 2007)
- US Fish and Wildlife Service (USFWS) County Species List (March 2007)
- A facilities map provided by PGE Energy (March 2, 2007), indicating the location and extent of the five survey areas (Figure 1).

#### Site investigation

The site investigation was performed to complete the following:

- Conduct a preliminary estimate of the area of potentially jurisdictional wetlands and/or waters within Study Areas C, D and F that may be affected by construction.
- Document occurrence of and/or potential habitat for sensitive plant species within the vicinity of Study Areas A-F.

Qualified CH2M HILL biologists conducted the site investigations for Study Areas A-E on May 7, 2007 and for Study Area F on May 22, 2007.

## Results

#### Office Review

#### **USGS Topographic Map**

The site is located in the Klondike, Quinton, Rufus, and Wasco, Oregon 7.5-minute quadrangle of the USGS topographic maps. Potentially jurisdictional waters were identified

on the USGS map as occurring within Study Area D and F. No jurisdictional wetlands or waters were identified on the USGS map within Study Area C.

#### **Sherman County Soil Survey**

A review of the soil types mapped within Study Areas D and F determined that none are listed as hydric (Table 1).

TABLE 1

Manned Soils Study Areas D and F (Sherman County, OR)

Soil ID	Soil Name	Hydric	Hydric Inclusions
3D	Anderly silt loam, 15 to 35 percent south slopes	No	No
16D	Lickskillet very stony loam, 7 to 40 percent south slopes	No	No
31C	Walla Walla silt loam, 7 to 15 percent	No	No
32D	Walla Walla silt loam, 15 to 35 percent north slopes	No	No
33D	Walla Walla silt loam, 15 to 35 percent south slopes	No	No
36D	Wato very fine sandy loam, 15 to 35 percent south slopes	No	No

#### PGE Facilities Map (March 2007)

The map provided by PGE indicated potentially jurisdictional waters within the boundary at Study Area D and F (Figure 1).

#### Site investigation

The site investigation was conducted on May 7, 2007 at Study Areas A-E. Weather during the site investigation was warm (~65 F) and sunny, with no precipitation. Study Area F was investigated on May 22, 2007. Weather was warm (~70 F) and sunny. Representative site photos are presented in Appendix A.

#### Wetlands and Waters Survey

No vegetated wetlands were identified within Study Areas C, D or F. Other waters were present in Study Areas D and F.

#### Drainage D

The potentially jurisdictional channel identified on the USGS map at Study Area D was verified to be potentially jurisdictional in the field. This channel is identified as Drainage D to correlate to the study area in which it is located.

Drainage D is an intermittent stream located within Box Canyon in Study Area D and is a tributary of the John Day River. This drainage is located east of Helm Lane at the northernmost portion of the project site (Figure 2). Vegetation within the channel included

species such as cheat grass (*Bromus tectorum*, NI), bulbous bluegrass (*Poa bulbosa*, NI), and Russian thistle (*Salsola kali*, UPL). There was no flow in the channel during the site visit. Indicators of hydrology including evidence of flow, bed and banks, eroded soil and exposed rock were observed at the time of the site investigation. A large box culvert is located at this drainage, indicating that the channel may receive high flows during the wet months. (Appendix A, Photos 4 and 5).

Potential temporary impacts to the jurisdictional water identified at Drainage D may occur during construction of the adjacent turbines (turbines 28-33). Impacts to this potentially jurisdictional water could be avoided by implementing best management practices (BMPs) such as silt fencing and other erosion control measures to ensure no fill entered the channel. If impacts are unavoidable, mitigation for temporary impacts to this resource would be required by the regulatory agencies.

#### Drainage F

The potentially jurisdictional channel identified on the USGS map at Study Area F was verified to be potentially jurisdictional in the field. This channel is identified as Drainage F to correlate to the study area in which it is located.

Drainage F is an intermittent stream located within Fox Canyon within Study Area F and is a tributary of the John Day River. This drainage is located south of Helm Lane at the northern portion of the project site (Figure 3). Vegetation along the channel banks was primarily cheat grass (*Bromus tectorum*, NI. There was no flow in the channel during the site visit. Indicators of regular flow included a scoured unvegetated bed, sediment deposits on the bed, and eroded banks (Appendix A, Photos 8 and 9).

#### Rare Plant Habitat Survey

Existing literature and scientific data were reviewed to determine species distribution and potential for occurrence within Study Areas A-F. The ORNHIC database and USFWS were consulted for documented and potential occurrences of candidate, proposed, and listed species.

ORNHIC and USFWS database searches revealed four listed or candidate plant species that might occur within the study area: Northern wormwood (*Artemisia campestris* var. wormskioldii), , Laurence's milk-vetch (*Astragalus collinus* var. laurentii), Henderson's ricegrass (*Achnatherum hendersonii*), disappearing monkeyflower (*Mimulus evanescens*) (Table 2).

TABLE 2
Federal and State Listed or Candidate Plant Species Potentially Occurring Within the Study Areas (based on April 2007 ONHIC data)

Common Name	Scientific Name	Federal Status <sup>1</sup>	State Status <sup>1</sup>	Notes on Habitat Occurrence
Northern wormwood	Artemisia campestris var. wormskioldii	С	LE	No suitable habitat
Laurence's milk-vetch	Astragalus collinus var. laurentii	SOC	LT	No suitable habitat
Henderson's ricegrass	Achnatherum hendersonii	SOC	С	No suitable habitat
Disappearing monkeyflower	Mimulus evanescens	soc	С	No suitable habitat

<sup>1</sup> State and Federal Status Definitions

LE—Listed Endangered. Taxa listed by the USFWS or National Marine Fisheries Service (NMFS) as Endangered under the Endangered Species Act (ESA), or by the Departments of Agriculture (ODA) and Fish and Wildlife (ODFW) of the state of Oregon under the Oregon Endangered Species Act of 1987 (OESA). Endangered taxa are those which are in danger of becoming extinct within the foreseeable future throughout all or a significant portion of their range.

LT—Listed Threatened. Taxa listed by the above agencies as Threatened; defined as those taxa likely to become endangered within the foreseeable future.

**C**—Candidate. Candidate taxa for which NMFS or USFWS have sufficient information to support a proposal to list under the ESA, or which is a candidate for listing by the ODA under the OESA.

**SoC**—Species of Concern. Former Category 2 candidates for which additional information is needed in order to propose as threatened or endangered under the ESA; these species are under review for consideration as Candidates for listing under the ESA.

#### Study Area A

This study area is located within Conservation Reserve Program (CRP) land north of Herin Lane. Vegetation includes species such as cheat grass, cultivated wheat, bluegrass, big sagebrush (*Artemisia tridentate*), Russian thistle, common yarrow (*Achillea millefolium*), whitlow grass (*Draba verna*), crested wheatgrass (*Agropyron cristatum*), rabbitbrush (*Chrysothamnus nauseosus*), and blue wildrye (*Elymus glaucus*) (Appendix A, Photo 1). Suitable habitat was not identified within the study areas for any of the listed plant species.

#### Study Area B

This study area is located west of Oehman Road and south of Herin Lane. Vegetation includes species such as cheat grass, cultivated wheat, bluegrass, Russian thistle, common yarrow, crested wheatgrass, blue wildrye, common groundsel (*Senecio vulgaris*), and biscuitroot (*Lomatium triternatum*) (Appendix A, Photo 2). Suitable habitat was not identified within the study areas for any of the listed plant species.

#### Study Area C

This study area is located south of Herin Lane and south of the on-going construction for the substation and O&M facility in a cultivated wheat field. Suitable habitat was not identified within the study areas for any of the listed plant species (Appendix A, Photo 3).

#### Study Area D

This study area is located east of Helm Lane at the northernmost portion of the project site. Vegetation includes species such as cheat grass, bulbous bluegrass, and Russian thistle (Appendix A, Photos 4 and 5). Suitable habitat was not identified within the study areas for any of the listed plant species.

#### Study Area E

This study area is located west of Oehman Road and south of Helm Lane. Vegetation includes species such as cheat grass, common yarrow, bluegrass, lupine (*Lupinus* sp.), crested wheatgrass, yellow salsify (*Tragopogon dubius*), arrowleaf balsamroot (*Balsamorhiza sagittata*), rabbitbrush, fleabane (*Erigeron* sp.), fiddleneck (*Amsinckia spectabilis*), and phlox (*Phlox* sp.) (Appendix A, Photos 6 and 7). Suitable habitat was not identified within the study areas for any of the listed plant species.

#### Study Area F

This study area is located south of Helm Lane at the northern portion of the project site. Most of the study area is an active wheat field. Drainage F flows between the wheat field and the road embankment of Helm Lane. Vegetation along the drainage banks and on the road embankment was primarily cheatgrass (*Bromus techtorum*) (Appendix A, Photo 8). No rare plant species or suitable habitat were observed.

### Conclusion

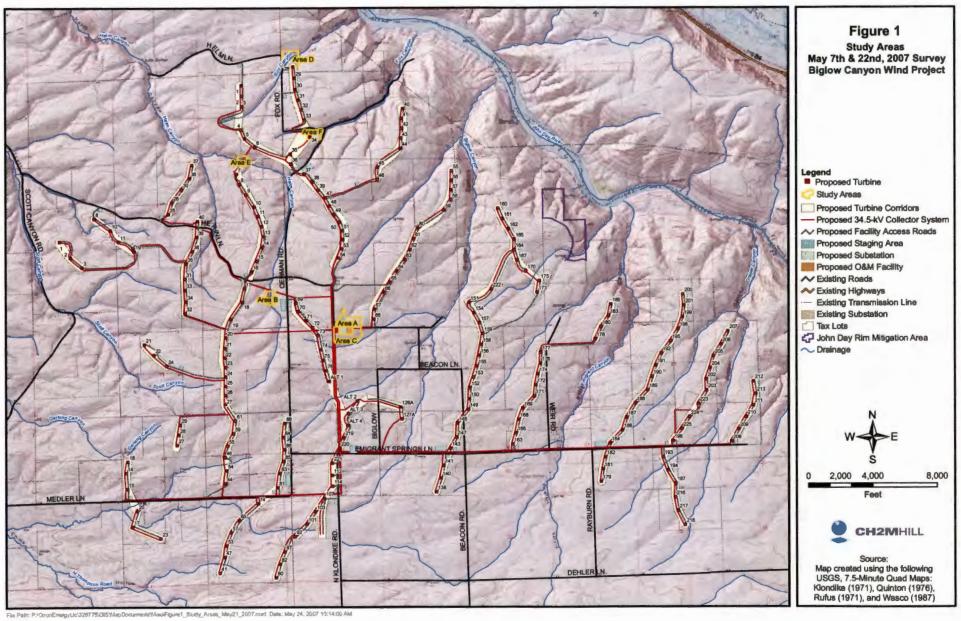
An office review of USGS data, NWI and soils maps, and the PGE facilities map identified two potentially jurisdictional waters within the Study Areas. A field visit performed on May 7, 2007 confirmed Drainage D as a potentially jurisdictional water of the U.S. and the State of Oregon (see Figure 2-Drainage D). A field visit performed on May 22, 2007 confirmed Drainage F as a potentially jurisdictional water of the U.S. and the State of Oregon (see Figure 3-Drainage F).

Impacts to the potentially jurisdictional water identified at Drainage D will be avoided as no fill or removal will occur at this drainage. Avoiding impact at this drainage obviates the need for subsequent wetland delineation reports, modifications to the existing permit authorizations, and the submittal of a mitigation and restoration plan to the resource agencies. Since there are no impacts at Drainage D, there is no need to revise the existing state and federal permits.

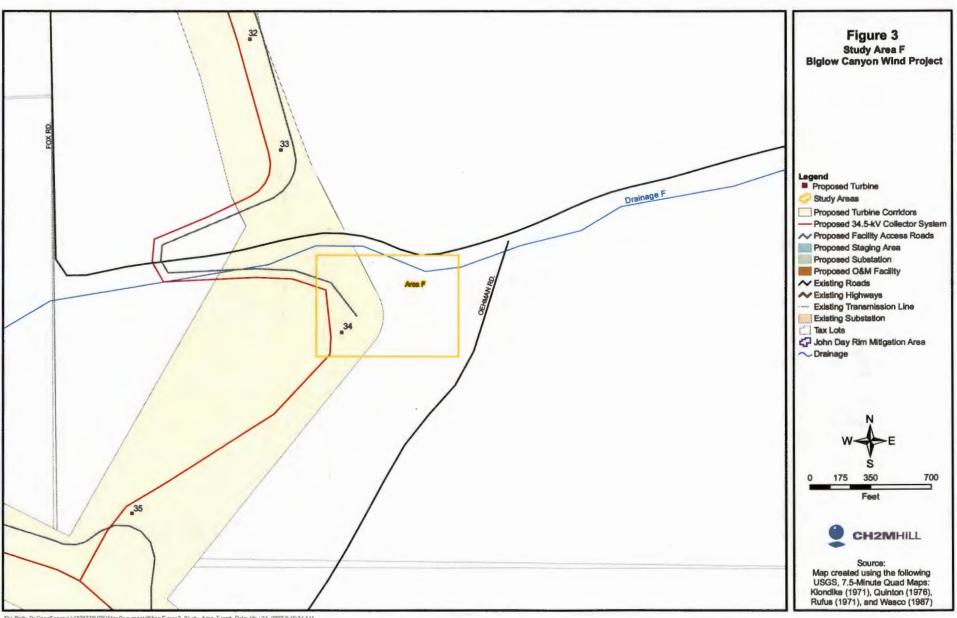
Impacts to the potentially jurisdictional water identified at Drainage F may include installation of a culvert and fill material for an access road. The Corps of Engineers previously authorized activities associated with drainage crossings for the Biglow Canyon Wind Farm Project. A Regional General Permit- Category E was issued on September 26,

2006 (Corps No: 200500689). Modifications to the existing Corps of Engineers permit is not necessary as the activities associated with placing a culvert at this drainage F are covered under the existing RGP and the threshold of 0.5 acres of impacts to waters of the U.S. will not be exceeded. The Department of State Lands has previously determined (Appendix B) that this drainage is non-jurisdictional and exempt from state permit requirements.

No jurisdictional wetlands were identified within the study areas. No rare plants or rare plant habitat were identified within the study areas.







File Path: Pr-OnorEnerg/Lic/326775:GIS Map Documents Stack Figure 3\_Study\_Area\_Fired, Date: May 24 2007 9:19:34 AM





# OREGON DEPARTMENT OF ENERGY

625 Marion St. NE Salem, OR 97301-3737 Phone: (503) 378-4040 Toll Free: 1-800-221-8035 FAX: (503) 373-7806 www.oregon.gov/energy

June 27, 2007

Mr. Rick Tetzloff Portland General Electric 121 SW Salmon Street Portland OR 97204

Re: Biglow Canyon Wind Farm

Crane Path

#### Dear Rick:

We have reviewed your request, dated June 14, for a Department determination under OAR 345-027-0050(5) that a proposed new crane path does not require an amendment of the site certificate.

The new crane path would extend from the north end of String 10 to Helm Lane. This would allow moving the crane between Strings 9 and 10 (via Helm Lane and the access road to String 9) without dismantling the crane. Although there is an access road that runs west from Turbine 30 to Helm Lane where it parallels String 10, you have explained that the crane cannot travel the segment of Helm Lane to the north of that access road (due to topography).

The crane path track would be approximately 30 feet wide, and the path would be approximately 1,416 feet long. It would follow a route that, in part, consists of existing dirt access road ("jeep trail" on USGS maps). The remainder of the route would traverse a field that is currently planted in wheat. The crane path would be used in the late summer or fall. If the crane path were used before summer harvest of the wheat, PGE would compensate the property owner for any crop damage. You have stated that both the landowner and the farmer have no objection to the crane path.

There is a drainage in the area that a CH2M HILL report has identified as a "potentially jurisdictional water" (Biglow Canyon Wind Farm - Supplemental Wetlands and Waters Determination and Rare Plant Habitat Survey, May 24, 2007). The report describes the drainage as an intermittent stream that is a tributary of the John Day River.

Jurisdictional status has not been confirmed by the Department of State Lands or the US Army Corps of Engineers. There was no flow in the drainage channel at the time of the survey. Although the crane path would cross the drainage, no removal or fill would be done. Accordingly, a Removal/Fill Permit is not needed. Site certificate Condition 26 requires PGE to implement appropriate erosion and sediment control measures to protect the drainage.

The CH2M HILL survey also investigated the area for the presence of federal or state-listed rare plants. There were no observations of rare plants or suitable habitat.

In your request, you included a technical memorandum from WEST, Inc., regarding a survey of the area for the presence of threatened, endangered and sensitive wildlife species (*TES Wildlife Spring 2007*, May 24, 2007). No state or federally-protected or State Sensitive species were observed in the area of the proposed crane path.

You also included a report from Archaeological Investigations Northwest, Inc., on a survey for cultural resources in the area (*A Cultural Resource Survey for the Biglow Canyon Wind Farm*, May 24, 2007). No archaeological or historic resources were observed in the area, and the area is not considered to have a high probability for prehistoric resources. Any resources discovered during construction would be subject to the requirements of Condition 72.

The crane path would increase the area of temporary construction impacts on habitat. The overall area of impact would be less than one acre. Most of the affected habitat is Category 6 (0.95 acres) and the remainder is Category 4 shrub-steppe (0.03 acres). Mitigation of any adverse impact to the Category 6 area (a wheat field) would be addressed by PGE in negotiation with the landowner. No vegetation would be removed in the Category 4 habitat area, and the impact of the crane path is not expected to be significant.

In your request, you have also proposed the elimination of a previously-approved access road. The road has not been built. The previously-approved road would have provided access between Turbines 3 and 4 in String 9 (as shown on Figure 1 of your request). Without this road, there would be no route of access from Turbine 3 to Turbine 4. Access to Turbines 1, 2 and 3 would be from the north, off Helm Lane, and access to Turbines 4, 5 and 6 would be from the south. Turn-arounds approximately 100 feet in diameter would be constructed near Turbines 3 and 4.

The effect of not building the road would be a reduction in the area of permanent and temporary habitat impact. The net habitat impact of eliminating the road and adding the turn-arounds would be a reduction of permanent impact by approximately

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1.81 acres. Most of the reduction would be in Category 6 farmland habitat (1.74 acres), with the remainder in Category 4 grassland (0.07 acres). In addition, there would be a net reduction in temporary impact to Category 6 habitat (0.43 acres) and Category 4 habitat (0.03 acres). These reductions in habitat impact more than offset the new temporary impact of the proposed crane path.

The Department agrees with your conclusion that the new crane path is consistent with Council standards. The current site certificate conditions adequately address the impacts of the crane path. For the reasons described above, we have determined that a site certificate amendment proceeding is unnecessary and that you may use the crane path as proposed in your request. Please include a description of this change request and our determination in the next semi-annual construction progress report and in the next annual report required under OAR 345-026-0080. Include in your report a description of any unanticipated impacts resulting from the use of the crane path and how those impacts were addressed by PGE.

Sincerely,

John **G**. White Senior Analyst