

## **Exhibit D Organizational Expertise**

### **Boardman to Hemingway Transmission Line Project**



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*Preliminary Application for Site Certificate*

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## ACRONYMS AND ABBREVIATIONS

Note: Not all acronyms and abbreviations listed will appear in this Exhibit.

°C	degrees Celsius
4WD	4-wheel-drive
A	ampere
A/ph	amperes/phase
AC	alternating current
ACDP	Air Contaminant Discharge Permit
ACEC	Area of Critical Environmental Concern
ACSR	aluminum conductor steel reinforced
AIMP	Agricultural Impact Mitigation Plan
AMS	Analysis of the Management Situation
aMW	average megawatt
ANSI	American National Standards Institute
APE	Area of Potential Effect
APLIC	Avian Power Line Interaction Committee
ARPA	Archaeological Resource Protection Act
ASC	Application for Site Certificate
ASCE	American Society of Civil Engineers
ASP	Archaeological Survey Plan
AST	aboveground storage tank
ASTM	American Society of Testing and Materials
ATC	available transmission capacity
ATV	all-terrain vehicle
AUM	animal unit month
B2H	Boardman to Hemingway Transmission Line Project
BCCP	Baker County Comprehensive Plan
BCZSO	Baker County Zoning and Subdivision Ordinance
BLM	Bureau of Land Management
BMP	best management practice
BPA	Bonneville Power Administration
BOR	Bureau of Reclamation
C and D	construction and demolition
CAA	Clean Air Act
CadnaA	Computer-Aided Noise Abatement
CAFE	Corona and Field Effects
CAP	Community Advisory Process
CBM	capacity benefit margin
CFR	Code of Federal Regulations
CH	critical habitat
CIP	critical infrastructure protection
CL	centerline
cm	centimeter
cmil	circular mil
COA	Conservation Opportunity Area
CO <sub>2</sub> e	carbon dioxide equivalent

COM Plan	Construction, Operations, and Maintenance Plan
CPCN	Certificate of Public Convenience and Necessity
cps	cycle per second
CRP	Conservation Reserve Program
CRT	cathode-ray tube
CRUP	Cultural Resource Use Permit
CSZ	Cascadia Subduction Zone
CTUIR	Confederated Tribes of the Umatilla Indian Reservation
CWA	<i>Clean Water Act of 1972</i>
CWR	Critical Winter Range
dB	decibel
dBA	A-weighted decibel
DC	direct current
DoD	Department of Defense
DOE	U.S. Department of Energy
DOGAMI	Oregon Department of Geology and Mineral Industries
DPS	Distinct Population Segment
DSL	Oregon Department of State Lands
EA	environmental assessment
EDRR	Early Detection and Rapid Response
EIS	Environmental Impact Statement (DEIS for Draft and FEIS for Final)
EFSC or Council	Energy Facility Siting Council
EFU	Exclusive Farm Use
EHS	extra high strength
EMF	electric and magnetic fields
EPA	Environmental Protection Agency
EPC	Engineer, Procure, Construct
EPM	environmental protection measure
EPRI	Electric Power Research Institute
ERO	Electric Reliability Organization
ERU	Exclusive Range Use
ESA	Endangered Species Act
ESCP	Erosion and Sediment Control Plan
ESU	Evolutionarily Significant Unit
EU	European Union
FAA	Federal Aviation Administration
FCC	Federal Communication Commission
FEMA	Federal Emergency Management Agency
FERC	Federal Energy Regulatory Commission
FFT	find, fix, track, and report
FLPMA	Federal Land Policy and Management Act
Forest Plan	Land and Resource Management Plan
FPA	Forest Practices Act
FSA	Farm Services Agency
FWS	U.S. Fish and Wildlife Service
G	gauss

GeoBOB	Geographic Biotic Observation
GF	Grazing Farm Zone
GHG	greenhouse gas
GHz	gigahertz
GIL	gas insulated transmission line
GIS	geographic information system
GPS	Global Positioning System
GRMW	Grande Ronde Model Watershed
GRP	Grassland Reserve Program
HAC	Historic Archaeological Cultural
HCNRA	Hells Canyon National Recreation Area
HPFF	high pressure fluid-filled
HPMP	Historic Properties Management Plan
HUC	Hydrologic Unit Code
Hz	hertz
I-84	Interstate 84
ICC	International Code Council
ICES	International Committee on Electromagnetic Safety
ICNIRP	International Commission on Non-Ionizing Radiation Protection
IDAPA	Idaho Administrative Procedures Act
IDEQ	Idaho Department of Environmental Quality
IDFG	Idaho Department of Fish and Game
IDWR	Idaho Department of Water Resources
ILS	intensive-level survey
IM	Instructional Memorandum
INHP	Idaho Natural Heritage Program
INRMP	Integrated Natural Resources Management Plan
IPC	Idaho Power Company
IPUC	Idaho Public Utilities Commission
IRP	integrated resource plan
IRPAC	IRP Advisory Council
ISDA	Idaho State Department of Agriculture
JPA	Joint Permit Application
KCM	thousand circular mils
kHz	kilohertz
km	kilometer
KOP	Key Observation Point
kV	kilovolt
kV/m	kilovolt per meter
kWh	kilowatt-hour
L <sub>dn</sub>	day-night sound level
L <sub>eq</sub>	equivalent sound level
lb	pound
LCDC	Land Conservation and Development Commission
LDMA	Lost Dutchman's Mining Association
LiDAR	light detection and ranging
LIT	Local Implementation Team

LMP	land management plan
LOLE	Loss of Load Expectation
LRMP	land and resource management plan
LUBA	Land Use Board of Appeals
LWD	large woody debris
m	meter
mA	milliampere
MA	Management Area
MAIFI	Momentary Average Interruption Frequency Index
MCC	Malheur County Code
MCCP	Morrow County Comprehensive Plan
MCE	Maximum Credible Earthquake
MCZO	Morrow County Zoning Ordinance
mG	milligauss
MHz	megahertz
mm	millimeter
MMI	Modified Mercalli Intensity
MP	milepost
MPE	maximum probable earthquake
MRI	magnetic resonance imaging
MVAR	megavolt ampere reactive
Mw	mean magnitude
MW	megawatt
$\mu\text{V/m}$	microvolt per meter
N <sub>2</sub> O	nitrous oxide
NAIP	National Agriculture Imagery Program
NED	National Elevation Dataset
NEMS	National Energy Modeling System
NEPA	<i>National Environmental Policy Act of 1969</i>
NERC	North American Electric Reliability Corporation
NESC	National Electrical Safety Code
NF	National Forest
NFPA	National Fire Protection Association
NFS	National Forest System
NGDC	National Geophysical Data Center
NHD	National Hydrography Dataset
NHOTIC	National Historic Oregon Trail Interpretive Center
NHT	National Historic Trail
NIEHS	National Institute of Environmental Health Sciences
NIST	National Institute of Standards and Technology
NOAA	National Oceanic and Atmospheric Administration
NOAA Fisheries	National Oceanic and Atmospheric Administration Fisheries Division
NOI	Notice of Intent to File an Application for Site Certificate
NOV	Notice of Violation
NPDES	National Pollutant Discharge Elimination System
NRCS	Natural Resources Conservation Service

NRHP	National Register of Historic Places
NSR	noise sensitive receptor
NTTG	Northern Tier Transmission Group
NWGAP	Northwest Regional Gap Analysis Landcover Data
NWI	National Wetlands Inventory
NWPP	Northwest Power Pool
NWR	National Wildlife Refuge
NWSRS	National Wild and Scenic Rivers System
NWSTF	Naval Weapons Systems Training Facility
O <sub>3</sub>	ozone
O&M	operation and maintenance
OAIN	Oregon Agricultural Information Network
OAR	Oregon Administrative Rules
OATT	Open Access Transmission Tariff
ODA	Oregon Department of Agriculture
ODEQ	Oregon Department of Environmental Quality
ODF	Oregon Department of Forestry
ODFW	Oregon Department of Fish and Wildlife
ODOE	Oregon Department of Energy
ODOT	Oregon Department of Transportation
OHGW	overhead ground wire
OHV	off-highway vehicle
OPGW	optical ground wire
OPRD	Oregon Parks and Recreation Department
OPS	U.S. Department of Transportation, Office of Pipeline Safety
OPUC	Public Utility Commission of Oregon
OR	Oregon (State) Highway
ORBIC	Oregon Biodiversity Information Center
ORS	Oregon Revised Statutes
ORWAP	Oregon Rapid Wetland Assessment Protocol
OS	Open Space
OSDAM	Oregon Streamflow Duration Assessment Methodology
OSHA	Occupational Safety and Health Administration
OSSC	Oregon Structural Specialty Code
OSWB	Oregon State Weed Board
OWC	Oregon Wetland Cover
P	Preservation
PA	Programmatic Agreement
pASC	Preliminary Application for Site Certificate
PAT	Project Advisory Team
PCE	Primary Constituent Element
PEM	palustrine emergent
PFO	palustrine forested
PGA	peak ground acceleration
PGE	Portland General Electric
PGH	Preliminary General Habitats
Pike	Pike Energy Solutions



PNSN	Pacific Northwest Seismic Network
POD	Plan of Development
POMU	Permit to Operate, Maintain and Use a State Highway Approach
PPH	Preliminary Priority Habitats
Project	Boardman to Hemingway Transmission Line Project
PSD	Prevention of Significant Deterioration
PSS	palustrine scrub-shrub
R	Retention
R-F	removal-fill
RCM	Reliability Centered Maintenance
RCRA	Resource Conservation and Recovery Act
ReGAP	Regional Gap Analysis Project
RFP	request for proposal
RLS	reconnaissance-level survey
RMP	resource management plan
ROD	Record of Decision
ROE	right of entry
RNA	research natural area
ROW	right-of-way
SAIDI	System Average Interruption Duration Index
SAIFI	System Average Interruption Frequency Index
SC	Sensitive Critical
SEORMP	Southeastern Oregon Resource Management Plan
SF6	sulfur hexafluoride
Shaw	Shaw Environmental and Infrastructure, Inc.
SHPO	State Historic Preservation Office
SLIDO	Statewide Landslide Inventory Database for Oregon
SMS	Scenery Management System
SMU	Species Management Unit
SPCC	Spill Prevention, Containment, and Countermeasures
SRMA	Special Recreation Management Area
SRSAM	Salmon Resources and Sensitive Area Mapping
SSURGO	Soil Survey Geographic Database
STATSGO	State Soil Geographic Database
SUP	special-use permit
SV	Sensitive Vulnerable
SWPPP	Stormwater Pollution Prevention Plan
T/A/Y	tons/acre/year
TDG	Total Dissolved Gas
TES	threatened, endangered, and sensitive (species)
TG	Timber Grazing
TMIP	Transmission Maintenance and Inspection Plan
TNC	The Nature Conservancy
tpy	tons per year
TSD	treatment, storage, and disposal
TV	television
TVES	Terrestrial Visual Encounter Surveys

TVMP	Transmission Vegetation Management Program
UBAR	Umatilla Basin Aquifer Restoration
UBWC	Umatilla Basin Water Commission
UCDC	Umatilla County Development Code
UCZPSO	Union County Zoning, Partition and Subdivision Ordinance
UDP	Unanticipated Discovery Plan
U.S.	United States
USACE	U.S. Army Corps of Engineers
U.S.C.	United States Code
USDA	U.S. Department of Agriculture
USFS	U.S. Department of Agriculture, Forest Service
USGS	U.S. Geological Survey
UWIN	Utah Wildlife in Need
V/C	volume to capacity
V	volt
VAHP	Visual Assessment of Historic Properties
VMS	Visual Management System
VQO	Visual Quality Objective
VRM	Visual Resource Management
WAGS	Washington ground squirrel
WCU	Wilderness Characteristic Unit
WECC	Western Electricity Coordinating Council
WHO	World Health Organization
WMA	Wildlife Management Area
WOS	waters of the state
WOUS	waters of the United States
WPCF	Water Pollution Control Facility
WR	winter range
WRCC	Western Regional Climate Center
WRD	(Oregon) Water Resources Division
WRP	Wetland Reserve Program
WWE	West-wide Energy
XLPE	cross-linked polyethylene

1 **Exhibit D**  
2 **Organizational Expertise**

3 **1.0 INTRODUCTION**

4 Exhibit D demonstrates that Idaho Power Company (IPC) meets the approval standard for  
5 organizational expertise in accordance with Oregon Administrative Rule (OAR) 345-022-0010,  
6 based on information provided pursuant to OAR 345-021-0010(1)(d), paragraphs (A) through  
7 (E).

8 This exhibit provides detailed information regarding IPC's organizational, managerial, and  
9 technical expertise to construct and operate a 500-kilovolt (kV) transmission line.

10 **2.0 APPLICABLE RULES AND STATUTES**

11 The Oregon Energy Facility Siting Council (EFSC or Council) standard for organizational  
12 expertise is set forth in OAR 345-022-0010:

13 *(1) To issue a site certificate, the Council must find that the applicant has the*  
14 *organizational expertise to construct, operate and retire the proposed facility in*  
15 *compliance with Council standards and conditions of the site certificate. To conclude that*  
16 *the applicant has this expertise, the Council must find that the applicant has*  
17 *demonstrated the ability to design, construct and operate the proposed facility in*  
18 *compliance with site certificate conditions and in a manner that protects public health*  
19 *and safety and has demonstrated the ability to restore the site to a useful, non-*  
20 *hazardous condition. The Council may consider the applicant's experience, the*  
21 *applicant's access to technical expertise and the applicant's past performance in*  
22 *constructing, operating and retiring other facilities, including, but not limited to, the*  
23 *number and severity of regulatory citations issued to the applicant.*

24 *(2) The Council may base its findings under section (1) on a rebuttable presumption that*  
25 *an applicant has organizational, managerial and technical expertise, if the applicant has*  
26 *an ISO 9000 or ISO 14000 certified program and proposes to design, construct and*  
27 *operate the facility according to that program.*

28 *(3) If the applicant does not itself obtain a state or local government permit or approval*  
29 *for which the Council would ordinarily determine compliance but instead relies on a*  
30 *permit or approval issued to a third party, the Council, to issue a site certificate, must*  
31 *find that the third party has, or has a reasonable likelihood of obtaining, the necessary*  
32 *permit or approval, and that the applicant has, or has a reasonable likelihood of entering*  
33 *into, a contractual or other arrangement with the third party for access to the resource or*  
34 *service secured by that permit or approval.*

35 *(4) If the applicant relies on a permit or approval issued to a third party and the third*  
36 *party does not have the necessary permit or approval at the time the Council issues the*  
37 *site certificate, the Council may issue the site certificate subject to the condition that the*  
38 *certificate holder shall not commence construction or operation as appropriate until the*  
39 *third party has obtained the necessary permit or approval and the applicant has a*  
40 *contract or other arrangement for access to the resource or service secured by that*  
41 *permit or approval.*

## 1   **2.1   Requirements of Exhibit D – OAR 345-021-0010(1)(d)**

2   To demonstrate compliance with the organizational expertise standard, and in accordance with  
3   OAR 345-021-0010(1)(d), Exhibit D must include the following information:

4         *(A) The applicant's previous experience, if any, in constructing and operating similar*  
5         *facilities.*

6         *(B) The qualifications of the applicant's personnel who will be responsible for*  
7         *constructing and operating the facility, to the extent that the identities of such personnel*  
8         *are known when the application is submitted.*

9         *(C) The qualifications of any architect, engineer, major component vendor, or prime*  
10         *contractor upon whom the applicant will rely in constructing and operating the facility, to*  
11         *the extent that the identities of such persons are known when the application is*  
12         *submitted.*

13         *(D) The past performance of the applicant, including but not limited to the number and*  
14         *severity of any regulatory citations in constructing or operating a facility, type of*  
15         *equipment, or process similar to the proposed facility.*

16         *(E) If the applicant has no previous experience in constructing or operating similar*  
17         *facilities and has not identified a prime contractor for construction or operation of the*  
18         *proposed facility, other evidence that the applicant can successfully construct and*  
19         *operate the proposed facility. The applicant may include, as evidence, a warranty that it*  
20         *will, through contracts, secure the necessary expertise.*

21         *(F) If the applicant has an ISO 9000 or ISO 14000 certified program and proposes to*  
22         *design, construct and operate the facility according to that program, a description of the*  
23         *program.*

24         *(G) If the applicant relies on mitigation to demonstrate compliance with any standards of*  
25         *Division 22 or 24 of this chapter, evidence that the applicant can successfully complete*  
26         *such proposed mitigation, including past experience with other projects and the*  
27         *qualifications and experience of personnel upon whom the applicant will rely, to the*  
28         *extent that the identities of such persons are known at the date of submittal.*

## 29   **2.2   Project Order Requirements**

30   The Project Order states that all paragraphs of OAR 345-021-0010(1)(d) apply. Additionally, the  
31   Project Order includes the following requirements:

32         *Regarding the ability to successfully construct the project "in accordance with site*  
33         *certificate conditions," the Council's review is not limited to IPC's ability to construct a*  
34         *transmission line. The application must also demonstrate that IPC can honor all*  
35         *commitments and conditions regarding minimization and mitigation of impacts on the*  
36         *resources protected by Council standards and applicable regulations of other agencies.*

37         *Exhibit D should include a safety and environmental regulatory compliance history for*  
38         *the last three years that is focused on similar facilities owned or operated by the*  
39         *applicant, such as transmission lines and substations. If possible, evidence of successful*  
40         *completion of mitigation projects should also be provided.*

41   As documented in Table D-5 (Submittal Requirements Matrix), IPC has drafted Exhibit D to  
42   respond to each paragraph of OAR 345-021-0010(1)(d) set forth above, as well as the  
43   additional requirements set forth in the Project Order.

1 **3.0 ANALYSIS**

2 **3.1 Overview of IPC and Its Transmission System**

3 IPC is an investor-owned electric utility that has operated its core business—the generation,  
4 transmission, distribution, sale and purchase of electric energy—for 97 years. IPC has an  
5 employee base of approximately 2,000 people. Its service territory covers approximately 24,000  
6 square miles in southern Idaho and eastern Oregon, in which IPC serves nearly 500,000  
7 customers. IPC is subject to regulatory oversight by the Federal Energy Regulatory Commission  
8 (FERC), the Idaho Public Utilities Commission (IPUC), and the Public Utility Commission of  
9 Oregon (OPUC).

10 IPC has extensive experience constructing, operating, and maintaining its transmission system.  
11 Indeed, IPC has been constructing transmission lines and operating and maintaining its  
12 transmission system since IPC was established in 1915. Currently, IPC’s transmission system  
13 includes 275 substations, 22 step-up stations, and 4,817 miles of transmission line including  
14 785 miles in Oregon. IPC also operates and maintains 26,697 miles of distribution line. IPC is  
15 responsible for the continued operation and maintenance of this system and must ensure that  
16 its work is performed in a manner that ensures safety and reliability through compliance with all  
17 applicable codes and standards.

18 **3.2 IPC’s Experience Constructing and Maintaining Transmission Lines**  
19 **and Substations**

20 **OAR 345-021-0010(1)(d)(A)**

21 The applicant’s previous experience, if any, in constructing and operating similar facilities;

22 **3.2.1 IPC’s Experience Constructing Transmission Lines**

23 IPC has significant experience constructing electric transmission lines. Since 2000, IPC has  
24 constructed, or overseen the construction of, nearly 240 miles of high voltage transmission lines  
25 (see Table D-1).

26 The transmission lines identified in Table D-1 were all completed successfully. None of the  
27 projects resulted in material cost overruns and the final costs of all projects substantially  
28 conformed to IPC’s project budgets. The Projects listed in Table D-1 include transmission lines  
29 completed in Idaho, and subject to Idaho state and federal regulations. For a description of  
30 facilities recently constructed in Oregon by IPC, see Section 3.5.4.

31

1 **Table D-1. Transmission Lines (230-kV) Constructed by IPC 2000 to Present**

Line No.	Line Name	Multi-Circuit	kV	Mileage	Self-Build or Contractor	Year
707	Brownlee – Ontario	–	230	72.7	Mustang Construction	2000
710	Locust – Caldwell	–	230	18.6	Wilson Construction	2003
711	Nampa Tap	Double	230	3.2	Wasatch Electric	2006
714	Brownlee – Oxbow	–	230	11.14	Great Southwestern	2004
715	Langley Gulch	Double	230	2.8	IPC Crew (line), TBH & Assoc. (foundations)	2011
716	Bennett Mtn – Rattlesnake	–	230	4.48	Wasatch Electric	2008
722	Borah – Hunt	–	230	68.22	Anderson & Wood Construction	2007
723	Danskin – Hubbard	–	230	39.46	Probst Electric	2008
724	Bennett Mtn – Danskin	–	230	5.52	Probst Electric	2008
725	Hemingway – Bowmont	–	230	13.01	IPC Crews (line), TBH & Assoc. (foundations)	2010

2 Note: All transmission lines described in the table are located in Idaho.

3 As indicated in the table above, all of the transmission lines built by IPC since 2000 have been  
4 230 kV. In 1981 IPC constructed a 500-kV transmission line—the Borah to Midpoint line, which  
5 is 84.4 miles in length. That line was designed to 500-kV standards, but initially energized and  
6 currently operated at 345 kV. This line will be energized at 500 kV as Segment 6 of the Gateway  
7 West transmission line project. Significantly for the purposes of this Exhibit, the process for  
8 constructing a 500-kV line is essentially the same as that for constructing a 230-kV line and  
9 therefore IPC's expertise in constructing 230-kV lines is a clear indicator of the expertise  
10 required for building a 500-kV line. In particular, a 500-kV line involves the same design process  
11 and similar considerations for selection of components, structures, and structure locations. In  
12 addition, the environmental compliance and mitigation requirements are the same.

13 Moreover, the procedures for operating and maintaining a 500-kV line are essentially the same  
14 as those required for operating and maintaining a 230-kV or 345-kV line. Thus, IPC's expertise  
15 in constructing and maintaining a 230-kV and 345-kV line is a clear indicator of the expertise  
16 required for the operation and maintenance of a 500-kV line.

17 There are, of course, some differences in the construction, operations, and maintenance of  
18 230-kV, 345-kV, and 500-kV lines. The primary differences lies in the required ground  
19 clearances, conductor spacing, and operational clearances. The National Electric Safety Code  
20 (NESC) requirements for ground clearances and conductor spacing increase as the voltage of  
21 the lines increase. Thus, structures that are required for 500-kV lines are typically taller than  
22 those required for 230-kV lines with similar conductors and span lengths. Conductor spacing  
23 requirements for 500-kV lines are also greater than for 230-kV or 345-kV circuits. Additionally,  
24 500-kV insulator strings are generally longer, although IPC sometimes insulates lower voltage  
25 lines at 500-kV levels (see, e.g., IPC's 85.18-mile-long Borah to Midpoint 345-kV line). IPC is  
26 aware of issues associated with the construction, operation, and maintenance of 500-kV  
27 transmission lines and is prepared to fully comply with all requirements.

### 1 **3.2.2 IPC's Experience Maintaining Transmission Lines**

2 In order to satisfy its obligation to provide safe and reliable electricity IPC has developed and  
3 implements a comprehensive maintenance program. This maintenance program is designed to  
4 ensure compliance with all applicable safety and reliability standards, including the standards  
5 set forth in the NESC and the FERC, North American Electric Reliability Corporation (NERC),  
6 and Western Electricity Coordinating Council (WECC) standards. IPC's maintenance program is  
7 also designed to achieve compliance with all applicable OPUC rules.<sup>1</sup>

8 The basis of IPC's maintenance program is its Transmission Maintenance and Inspection Plan  
9 (TMIP). The TMIP, which was developed by IPC, is reviewed and approved by IPC on an  
10 annual basis. In addition, WECC audits IPC's TMIP every 3 years; the most recent WECC audit,  
11 which was completed in 2011, did not raise any regulatory compliance issues.

12 The first and most important component of the TMIP is the line patrols. IPC conducts three  
13 general types of line patrols: unscheduled emergency line patrols, routine line  
14 patrols/inspections, and the aerial vegetation patrols.

15 The unscheduled emergency line patrols are performed in response to any unexplained system  
16 outage or interruption, or whenever requested by a dispatcher, to identify any major structural  
17 failures or issues. These are not typically a patrol or inspection of the entire line, but rather a of  
18 a particular portion of the line where there was some indication or report of a problem.

19 The routine line patrols are a detailed visual inspection of the entire line from end to end, at a  
20 minimum once per year on all lines included in any WECC Transfer Path in the Bulk Electric  
21 System. These inspections are conducted from either the ground or the air and are designed to  
22 ensure the integrity of the system. The air patrols/inspections are used to identify obvious line  
23 threatening defects and defects that cannot be seen from the ground. Ground patrol/inspections  
24 are made with the use of four-wheel drive vehicles, all-terrain vehicles, or on foot. These ground  
25 and air line patrols/inspections are done by four full-time transmission line patrolmen located in  
26 Payette, Boise, Twin Falls, and Pocatello.

27 The aerial vegetation patrol is conducted by the transmission utility Arborist as outlined in the  
28 Transmission Vegetation Management Program (TVMP). The Arborist normally accomplishes  
29 the aerial vegetation patrol while accompanying the line patrolman performing the routine line  
30 patrol.

31 In addition to the above mentioned inspections/patrols, IPC also completes a comprehensive  
32 10-year maintenance, as described in the TMIP, on all of its transmission lines. The 10-year  
33 inspection includes the detailed visual inspection of all components of the transmission line. The  
34 data collected from these inspections are compiled, evaluated, and defects are prioritized for  
35 general maintenance projects on the lines.

36 IPC applies its transmission maintenance program to all all transmission lines they operate  
37 which include the 230-kV and 345-kV transmission lines identified in this Exhibit, including the  
38 Borah to Midpoint line (which, as described above, is a 500-kV transmission lines energized at  
39 345 kV). Because the inspection and maintenance procedures required for a 500-kV  
40 transmission line are substantially the same as the inspection and maintenance procedures  
41 required for 230-kV and 345-kV transmission lines, IPC will apply its current transmission  
42 maintenance program to the Project.

### 43 **3.2.3 IPC's Experience Constructing Substations**

44 IPC's substations are also an integral part of its transmission system. IPC currently operates  
45 and maintains 275 substations and 22 step-up stations and has in place a comprehensive

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<sup>1</sup> OAR 860-024-0011 contains inspection requirements for electric supply facilities.

1 inspection and maintenance program that is designed to ensure compliance with all applicable  
2 standards, statutes, and regulations.

3 Since 2000, IPC has constructed the four substations listed in Table D-2.

4 **Table D-2. Substation Construction Projects**

Substation	Voltage (kV)	Self-Build or Contractor	Year
Hemingway	500/230	Self-Build/IPC (auxilliary power/communications/control), Anderson & Wood Construction (structural)	2011
Hubbard	230	Paradise Construction	2011
Langley Gulch	230	Self-Build/IPC (auxilliary power/communications/control), Anderson & Wood Construction (structural)	2011
Bennett Mountain	230	Self-Build/IPC	2005

5 Note: All transmission lines described in the table are located in Idaho.

6 These substations are similar in design and contain similar components to the proposed  
7 Grassland Substation, Longhorn Alternate Substation, and Horn Butte Alternate Substation.<sup>2</sup>  
8 Importantly, the IPC-owned Hemingway substation is a 500/230-kV substation. Thus, IPC's  
9 successful construction of these substations demonstrates that IPC possesses the expertise  
10 required for the successful construction of substations proposed in its application. For a  
11 description of facilities recently constructed in Oregon by IPC, see Section 3.5.4.

### 12 **3.2.4 IPC's Experience Maintaining Substations**

13 Like its transmission lines, IPC's substations are subject to rigorous maintenance programs to  
14 ensure the continued safe and reliable operation of IPC's system.

15 The foundation of IPC's substation maintenance program is monthly inspections of each  
16 substation. These inspections focus on visual inspection of buildings, fencing, and electrical  
17 equipment, and detailed monitoring of all protective relays, gauges, counters, meters, and  
18 communications devices. In the event that the inspection identifies a problem, the problem is  
19 either corrected immediately or scheduled for future maintenance, as required by the nature of  
20 the problem. In addition, IPC performs annual infrared assessments of all current carrying  
21 busses and operating equipment to identify hot spots that would indicate a pending problem that  
22 may need to be corrected.

23 In addition to the routine maintenance program mentioned above IPC has implemented a  
24 reliability based Substation Maintenance Program. This program uses a process known as  
25 Reliability Centered Maintenance (RCM), which begins with a thorough analysis of the different  
26 types of substation equipment, their typical usage rates and determines from that when  
27 maintenance should be accomplished to avoid emergency repairs. This analysis results in the

<sup>2</sup> IPC's preferred terminus for the Proposed Corridor is the proposed Grassland Substation, a 34-acre substation that Portland General Electric (PGE) has proposed in connection with two energy facility projects. To accommodate the 500-kV series capacitor bank and shunt reactor bank needed for the Project, IPC proposes to develop a 3-acre expansion of the southeast corner of the proposed Grassland Substation (see Exhibit C, Attachment C-1, Figure C-1-1). IPC has also proposed an alternate northern terminus, the Longhorn Alternate Substation, which is proposed for development by Bonneville Power Administration (BPA); if this terminus is selected, IPC would develop a 3-acre expansion of BPA's proposed Longhorn Substation. The Horn Butte Alternate Substation is the third alternate endpoint for the Proposed Corridor. There is no existing or proposed substation in the location of the Horn Butte Alternate Substation, and if IPC elects to terminate the Project at the Horn Butte Substation, it will independently develop the 20-acre facility.



1 creation of a model that depicts the probability of failure, using an assessment that categorizes  
2 the probability and effects of a failure for three distinct groups:

- 3 • Grid: The IPC transmission generation system. Failure effects have the potential of  
4 impacting economic dispatch of power or grid stability, the risk of failure is high if  
5 maintenance is neglected or not properly managed.
- 6 • Asset: The physical apparatus or adjacent equipment found in the substation. Failure  
7 effects include severe damage or total loss of the asset generally resulting in its  
8 replacement, the risk of failure is high if maintenance is neglected or not properly  
9 managed.
- 10 • Customers: Loss of key functions results in a sustained outage affecting a large segment  
11 of customers, the risk of functional failure is high if maintenance is neglected or not  
12 properly managed.

13 The RCM model is then used to develop a generic maintenance program for each type of  
14 equipment. The maintenance intervals for each type of substation equipment are detailed in  
15 Table D-3.

16 **Table D-3. Substation Maintenance**

Equipment	Maintenance Interval
Transformers	6 years
Transformer's Load Tap Changer	6 years
Circuit Breakers	10–18 years
Relays	3 years
Regulators	6 years

17 As noted, these maintenance intervals are used for routine maintenance; however, in the event  
18 that a monthly inspection identifies a problem that requires more immediate attention, IPC  
19 performs the necessary maintenance to ensure that the device or equipment is ready to function  
20 properly.

21 IPC has successfully applied this Substation Maintenance Program to all substations owned by  
22 IPC. To the extent that IPC may be required to perform maintenance at the proposed Grassland  
23 Substation Expansion (Portland General Electric [PGE]) or the Alternate Longhorn Substation  
24 Expansion (Bonneville Power Administration [BPA]), IPC will apply its Substation Maintenance  
25 Program or will develop an operations and maintenance agreement with PGE or BPA. In the  
26 event that IPC develops the Alternate Horn Butte Substation, IPC will apply its Substation  
27 Maintenance Program to that substation.

### 28 **3.3 Qualifications of Personnel Responsible for the Project**

#### 29 **OAD 345-021-0010(1)(d)(B)**

30 The qualifications of the applicant's personnel who will be responsible for constructing and operating  
31 the facility, to the extent that the identities of such personnel are known when the application is  
32 submitted;

33 IPC has assembled an experienced team of professional, technical, and administrative  
34 personnel to manage all phases of the Project. The following provides a brief description of the  
35 qualifications and experience of the key members of the Project Team:

- 36 • Vern Porter, Vice President of Engineering and Operations. Mr. Porter has been in his  
37 current position since October 1, 2009, and first joined IPC in 1989 after starting his  
38 career in 1986 with Pacific Gas and Electric Company. Before serving as Vice President

1 of Engineering and Operations, Mr. Porter served as IPC's General Manager of Power  
2 Production. With a background in electrical engineering, Mr. Porter has also held  
3 numerous engineering positions within IPC, including a position as a high voltage  
4 transmission engineer. Mr. Porter is the executive ultimately responsible for the  
5 completion of the Project and as such he will oversee the Project from design, through  
6 construction, to in-service.

- 7 • Douglas Dockter, Manager of 500-kV Projects. Mr. Dockter is responsible for managing  
8 IPC's Boardman to Hemingway and other 500-kV projects. He is directly responsible for  
9 interfacing between Executive Management and the Project Team and interfacing  
10 between Idaho Power and external stakeholders (PacifiCorp, BPA, and the Federal  
11 Rapid Response Team for Transmission for examples). Mr. Dockter has a degree in  
12 electrical engineering, is a licensed professional engineer in the state of Oregon  
13 (19491PE) and has been an employee of IPC since 1998. During this time, Mr Dockter  
14 has gained experience as a transmission line design engineer; a project leader for  
15 substations and transmission and distribution lines; an engineering leader in the  
16 transmission design group that included transmission and distribution design, joint use  
17 facilities, and right-of-way activities; an engineering leader for 500-kV projects; a  
18 manager of delivery projects; and a manager of 500-kV projects.
- 19 • Mike Bracke, Engineering Leader—500-kV Projects. Mr. Bracke is responsible for  
20 leading IPC's Boardman to Hemingway and Gateway West transmission line projects.  
21 He is directly responsible for the supervision, development, actions, and duties of the  
22 Project Team members. Mr. Bracke is responsible for working with and overseeing  
23 project partners, consultants, contractors, and agencies to ensure timely and cost-  
24 effective completion of the 500-kV projects. Mr. Bracke has a degree in mechanical  
25 engineering and has worked for IPC since 1996. During this time Mr. Bracke has gained  
26 experience as a Regional Apparatus Leader responsible for the operation and  
27 maintenance of the region's transmission and distribution substations; a Core Process  
28 Design Leader responsible for the structural engineering and design of substations; a  
29 Region Lines Leader responsible for the region's lines maintenance, design,  
30 construction and new services; and an Engineering Project Leader with primary  
31 responsibilities for the engineering, design and construction of IPC's Hemingway 500-kV  
32 substation.
- 33 • Todd Adams, Engineering Project Leader. Mr. Adams is responsible for project  
34 management of a variety of projects relating to system capacity, reliability, and financial  
35 performance. He executes defined projects, manages project resources (including IPC  
36 personnel, contract personnel, equipment, budget allocations, forecasts, and  
37 scheduling), and leads and evaluates project team members. Mr. Adams also directs  
38 performance of the project team to ensure completion of the project on schedule and  
39 within budget. Mr. Adams has a degree in civil engineering, is a licensed professional  
40 engineer, and has over 20 years of experience with IPC. He has worked in transmission  
41 design for 13 years, and project management for 7 years. Mr. Adams was the project  
42 manager for the following transmission line projects: Gateway West 500-kV, Borah-Hunt  
43 230-kV and Danskin-Hubbard 230-kV.
- 44 • Stacey Baczkowski, Senior Biologist. Ms. Baczkowski is responsible for developing,  
45 conducting, and implementing complex technical investigations and management plans  
46 and leading or directing significant investigations. Her specific technical projects include  
47 those associated with the construction of new transmission lines and the operation and  
48 maintenance of existing transmission and distribution lines. Ms. Baczkowski is  
49 responsible for coordinating, overseeing, and implementing environmental resource  
50 surveys for new and existing lines and working with federal agencies through the  
51 National Environmental Policy Act (NEPA) review and authorization processes. She is

1 also responsible for overseeing IPC's construction storm water program and noxious  
2 weed compliance. She has been conducting this work for 5 years with IPC. Prior to  
3 joining IPC, Ms. Baczkowski served for several years as a regulator responsible for  
4 construction and municipal stormwater compliance and implementation of Water Quality  
5 Certification (Section 401 of the Clean Water Act). Prior to that she worked as an  
6 environmental consultant responsible for preparing sections of NEPA and California  
7 Environmental Quality Act documents; conducting wetland delineations; obtaining  
8 authorizations for development projects; and conducting ecological risk assessments.

- 9 • Zach Funkhouser, Biologist II. As a Biologist, Mr. Funkhouser coordinates with other  
10 departmental staff to develop and assist in the preparation and review of environmental  
11 documentation pertaining to construction, operation, and maintenance of transmission  
12 and distribution lines. Mr. Funkhouser provides technical support, guidance, and  
13 direction with regard to environmental issues and permitting for transmission line  
14 projects, participates in consultation with agencies and works with transmission  
15 planners, engineers and other environmental staff to communicate and implement  
16 permitting processes. Mr. Funkhouser also participates in preparing comments to  
17 agencies regarding NEPA actions including Environmental Impact Statements,  
18 Environmental Assessments, and Categorical Exclusions that relate to transmission and  
19 distribution line projects and their ongoing operation and maintenance. He manages  
20 implementation of projects and tasks for which consultants have been acquired to  
21 provide work products in support of projects, and participates in site inspections to  
22 ensure compliance with permits. Mr. Funkhouser works with federal agencies through  
23 the NEPA process and associated authorizations. He has been with IPC for 2 years.  
24 Prior to employment with IPC, he spent 12 years as the Senior Environmental Planner  
25 for District Two of the Idaho Transportation Department, where he was responsible for  
26 preparation of NEPA documents and support including wetland delineations, biological  
27 assessments, archaeological and historic inventories, storm water planning, and permit  
28 compliance.
- 29 • Justin Hitt, Transmission Line Design Senior Engineer. Mr. Hitt is responsible for various  
30 engineering design aspects of electrical transmission lines, including the routing and  
31 design of new lines and the planned maintenance and emergency repairs of existing  
32 lines. He is responsible for the preparation of accurate and complete design packages  
33 (including drawings and construction specifications) that conform to established codes  
34 and standards for transmission line projects. Mr. Hitt prepares work orders, material  
35 summaries, cost estimates, work schedules, and construction drawings. He also designs  
36 transmission line projects, including line modeling with PLSCadd and AutoCAD software,  
37 structure design, structure spotting, conductor and tension selection, development of  
38 conductor sag-tension models, and selection of insulation and line hardware. Mr. Hitt is a  
39 licensed professional engineer with 21 years of experience in a variety of transmission  
40 and civil/structural design projects for utility and industrial clients; 9 of those years  
41 focused on transmission design.
- 42 • Dave Valentine, Archaeologist (Biologist II). Mr. Valentine has been in this position with  
43 IPC for 3 years, and his duties include overseeing cultural resource activities related to  
44 licensing, permitting, and constructing utility facilities including hydroelectric generation  
45 projects, transmission lines, and substations. He is the main point of contact for federal,  
46 state, and tribal related cultural resource issues and assures corporate compliance with  
47 the National Historical Preservation Act and other relevant state and federal laws. Mr.  
48 Valentine contracts with and oversees cultural consultants including archeologists,  
49 historians, and ethnographers and develops studies, proposals, or plans to mitigate  
50 impacts to cultural resources resulting from IPC-related activities as required by state  
51 and federal permits. Mr. Valentine obtained a master's degree in anthropology with an

1 emphasis in historic archaeology, and has 26 years of cultural resource management  
2 experience. Mr. Valentine developed his cultural resource management experience  
3 through working with private consulting firms or university contracting arms, and also  
4 with the federal government. He has experience on all phases of cultural resource  
5 permitting and archaeological investigations for a wide variety of projects, including  
6 linear energy projects such as gas pipelines and electrical transmission lines in Idaho,  
7 Oregon, and Nevada.

- 8 • Michael Vaughn, Engineering Project Leader. Mr. Vaughn is responsible for project  
9 management of a variety of transmission line and station projects relating to system  
10 capacity, reliability, stability, communications and control. He executes defined projects,  
11 manages project resources (including IPC personnel, contract personnel, equipment,  
12 budget allocations, forecasts, and scheduling), and leads and evaluates project team  
13 members to ensure completion of the project on schedule and within budget. Mr.  
14 Vaughn has a degree in Electrical Engineering, is a licensed professional engineer, and  
15 has 27 years of experience, 6 with IPC. Mr. Vaughn has been the project manager for  
16 numerous transmission line, communication station, and transmission station projects for  
17 IPC.

### 18 **3.4 Qualification of Contractors**

#### 19 **ORAR 345-021-0010(1)(d)(C)**

20 The qualifications of any architect, engineer, major component vendor, or prime contractor upon whom  
21 the applicant will rely in constructing and operating the facility, to the extent that the identities of such  
22 persons are known when the application is submitted;

#### 23 **3.4.1 Pike Energy Solutions**

24 IPC has retained the services of Pike Energy Solutions (Pike) to assist in the preliminary  
25 engineering of the Project. Pike is a leading provider of engineering and construction services  
26 for electric power delivery projects to over 200 investor-owned, municipal and cooperative  
27 utilities nationwide. Pike's portfolio of services includes siting, permitting, engineering design,  
28 installation, maintenance, and repair of power delivery systems. Pike Energy Solutions has a  
29 staff of over 250 project managers, engineers, designers, drafters and support personnel across  
30 five regional engineering offices, and has worked on a wide variety of engineering and  
31 construction projects from small transmission and substation upgrade projects to \$275 million  
32 Engineer, Procure, Construct projects.

33 Pike has performed both design and oversight roles for many projects, including several in the  
34 Northwest region of the United States. A representative sample of Pike's experience on projects  
35 similar to the Project is provided in the Table D-4.

36

1 **Table D-4. Pike's Representative Experience**

<b>Client/Location</b>	<b>Station/Host Utility</b>	<b>Commercial Operation</b>	<b>Scope</b>
PacifiCorp Rocky Mountain Power, Utah	PacifiCorp	In Permitting	Owner's engineer for 170-mile 345-kV transmission line and two substations
South Carolina Electric & Gas, various locations in South Carolina	SCE&G	Under Construction	Engineer, Procure, Construct (EPC) Contractor for 250 miles of 230-kV Transmission Line Upgrades (\$275 MM Project)
Fluor Oklahoma, Arkansas, Tennessee	Clean Line Energy	In Permitting	Owner's engineer for 800-mile Plains & Eastern HVDC Line
Wind Energy Transmission Texas (WETT), Texas	WETT	Under Construction	Owner's engineer for 345-kV transmission lines
South Carolina Electric & Gas, South Carolina	SCE&G	In Construction	EPC Contractor for 230-kV Switchyard at VC Summer Nuclear Station
Bonneville Power Administration, Pacific NW	BPA	Various Projects 2001-2005	500-kV transmission line furnish and install contract
Duke Energy North America Clark County, Nevada	Moapa (Nevada Power)	Completed On-Schedule	EPC for 500-kV switchyard
Duke Energy North America Maricopa County, Arizona	Arlington Valley (Salt River Project)	June 2002 - Completed On-Schedule	EPC for 500-kV switchyard & transmission line
Shaw Power Group Stone & Webster Division	Harry Allen Plant (NV Energy/ Nevada Power)	Engineering began November 2008, construction in June 2009. Substantial completion was reached July 2010.	EPC for 500-kV switchyard at Harry Allen Generating Station in Clark County, Nevada
Duke Energy North America Hot Springs, Arkansas	Hot Springs (Entergy)	June 2002 - Completed On-Schedule	EPC for 500-kV switchyard

2 **3.4.2 General Contractor**

3 IPC intends to retain an outside general contractor to actually perform the detailed design,  
4 procure materials, and construct the transmission line. Although that contractor has not yet been  
5 selected, IPC is developing its request for proposal (RFP) package that will set forth the criteria  
6 it will use to ensure that the firm retained has the requisite skill and experience to design,  
7 procure, and construct the line.

8 The RFP process will be overseen by IPC managers who have extensive experience  
9 conducting RFPs and overseeing the construction of large projects by third-party contractors.

1 The team responsible for administering the RFP is made up of internal and external experts  
2 from the following technical areas:

- 3 • Project Management
- 4 • Contracting
- 5 • Legal
- 6 • Design
- 7 • Environmental
- 8 • Construction
- 9 • Safety
- 10 • Quality Control

11 The RFP package being developed by IPC will outline the scope of work, the contract  
12 requirements, project schedule, design specifications, material and procurement specifications,  
13 and construction specifications. This RFP will be sent to potential bidders who are well known  
14 and experienced in projects similar to the Boardman to Hemingway transmission line project. In  
15 order to be considered, all respondents will be required to demonstrate ability to comply with all  
16 requirements. The administration team will select the respondent that demonstrates the best  
17 ability to accomplish the requested work scope on schedule, while meeting all safety,  
18 environmental and permit requirements and while providing the best value to IPC.

19 The following are examples of the criteria that will be used to evaluate respondents to the RFP:

#### 20 **Examples of Technical Evaluation Criteria**

- 21 • Demonstrated experience within the last 5 years' of successful completion of similar  
22 contracts;
- 23 • Experience in the design and engineering of large 500-kV transmission line projects;
- 24 • Experience with the installation of 500-kV lattice towers and tubular h-frame structures,  
25 large diameter drilled pier foundations, and triple-bundle conductor. Demonstrated ability  
26 to work well as a complete EPC team;
- 27 • Demonstrated experience with the compliance of environmental regulations, mitigation  
28 plans, avoidance areas (temporal and spatial restrictions), environmental  
29 monitoring, and education/training, etc.;
- 30 • Quality Control Plan;
- 31 • Demonstrate a commitment to safety and an excellent safety record; and
- 32 • Materials Procurement and Management Plan.

#### 33 **Examples of Commercial Evaluation Criteria**

- 34 • Bonding capacity and financial stability;
- 35 • Credit score;
- 36 • Use of Minority and Women-Owned businesses; Acceptance of delay and performance  
37 liquidated damages; and
- 38 • Willingness to accept the terms and conditions proposed by IPC in the RFP.

## 3.5 IPC's Past Performance

### 1 OAR 345-021-0010(1)(d)(D)

2 The past performance of the applicant, including but not limited to the number and severity of any  
3 regulatory citations in constructing or operating a facility, type of equipment, or process similar to the  
4 proposed facility;  
5

6 IPC has a long history of providing reliable electricity to its customers through the prudent  
7 operation of its transmission network. IPC's experience is demonstrated by its compliance with  
8 all applicable safety and reliability standards, including those promulgated by FERC at the  
9 federal level and by the OPUC at the state level. IPC also has a strong record of environmental  
10 regulatory compliance.

### 11 3.5.1 Federal Reliability Standards

12 The federal Energy Policy Act of 2005 authorized FERC to oversee the adoption of mandatory  
13 reliability standards for the electric grid. FERC delegated to NERC, a non-governmental  
14 organization designated by FERC as the nation's electricity reliability organization (ERO), the  
15 authority to develop and enforce reliability standards. To facilitate the enforcement of these  
16 reliability standards, NERC delegated certain enforcement authority to regional entities, such as  
17 WECC. As a result, IPC's transmission system is subject to three levels of reliability  
18 enforcement—WECC, NERC, and FERC.

19 To determine how the reliability standards apply to each registered entity, such as IPC, NERC  
20 outlined 14 specific functions that a registered entity can perform. IPC is registered with NERC  
21 to perform 12 separate functions related to IPC's ownership, operation, and use of the bulk  
22 electric system. These functions include the Transmission Owner and Transmission Operator  
23 functions. IPC's registration for these functions obligates IPC to follow the reliability standards  
24 that apply to these functions, including the critical infrastructure protection (CIP) cyber security  
25 standards, and to create and maintain documentation of IPC's compliance. The first non-CIP  
26 reliability standards became mandatory and enforceable on June 18, 2007, and the first CIP  
27 cyber security standards became mandatory and enforceable on July 1, 2008. In all IPC is  
28 subject to over 300 separate reliability standards and all 43 CIP cyber security standards.

29 IPC participates in a number of WECC enforcement processes relative to the reliability  
30 standards. Since the reliability standards became mandatory and enforceable, IPC has  
31 participated in one NERC audit, one WECC audit, and five self-certification processes regarding  
32 its compliance with the reliability standards. The few issues discovered in the audits and self-  
33 certification processes presented no material risk to the bulk electric system and were not  
34 associated with any incident in which transmission service was interrupted or IPC's transmission  
35 or distribution customers were adversely impacted.

36 In addition to audits and self-certification, IPC conducts internal monitoring of its compliance  
37 with the reliability standards. Because WECC encourages utilities to self-report possible  
38 violations of the reliability standards and self-reporting can result in mitigation of penalties  
39 resulting from actual violations of the standards, IPC errs on the side of over-reporting potential  
40 violations it discovers in its internal monitoring. Thus, while IPC may self-report a number of  
41 potential violations, many of these reports do not result in enforcement actions by WECC,  
42 NERC, or FERC. To date, issues discovered in IPC's internal monitoring processes have not  
43 created any material risk, or been associated with any incident in which transmission service  
44 was interrupted or IPC's transmission or distribution customers were adversely impacted.

45 To resolve several issues determined by WECC to be alleged violations, IPC has entered into  
46 confidential settlement agreements with WECC. To the extent that settlement agreements

1 include alleged violations of CIP cyber security standards covered under those aforementioned  
2 agreements, WECC, NERC, and FERC keep the name of the registered entity confidential and  
3 do not release that information to the public. To date, IPC has mitigated all CIP cyber security  
4 standard alleged violations, including those resolved in the confidential settlement agreements.

5 Final monetary penalties, including any resulting from the settlement agreements mentioned  
6 above, and any regarding non-CIP reliability standards are public information and are posted on  
7 NERC's website. For example, IPC has a FAC-013 self-reported violation from 2010 posted on  
8 the website with a \$10,000 penalty assigned, which has been paid. Additionally, potential  
9 violations of non-CIP reliability standards being handled using the find, fix, track, and report  
10 (FFT) process are also posted on the NERC website. The FFT process is reserved for potential  
11 violations that afford no more than a minimal risk to the bulk electric system, and potential  
12 violations handled using this process do not receive any penalty. It should be noted that IPC's  
13 recent potential violations have been processed in this manner. Additionally, IPC has mitigated  
14 all non-CIP reliability standard alleged violations, including those resolved in settlement  
15 agreements and through the FFT process.

### 16 **3.5.2 State Reliability Standards**

17 The OPUC has jurisdiction to regulate IPC's construction, operation, and maintenance of its  
18 electrical system to ensure that IPC operates "in such a manner as to protect and safeguard the  
19 health and safety of all employees, customers, and the public."<sup>3</sup> To this end, the OPUC has  
20 adopted specific safety standards for the construction and operation of IPC's facilities.<sup>4</sup> The  
21 OPUC's safety standards require the construction, operation, and maintenance of IPC's electric  
22 supply lines to be in full compliance with the NESC's standards.<sup>5</sup> IPC has never been found by  
23 the OPUC to be in violation of this requirement.

24 The OPUC also has detailed reliability reporting requirements. IPC must maintain detailed  
25 records of all service interruptions.<sup>6</sup> IPC must calculate interruption indices on a system-wide  
26 basis, for each operating area, and for each circuit.<sup>7</sup> IPC must also develop threshold levels for  
27 applicable interruption indices based on past reliability data, demographic, geographic, and  
28 electrical characteristics, and the relative performance of the circuits to each other.<sup>8</sup> Finally, IPC  
29 is required on an annual basis to file with the OPUC a report detailing the previous year's  
30 reliability information.<sup>9</sup> This report includes a comparison of the year's data to the determined  
31 thresholds and provides a summary of the causes of interruptions on IPC's system. This report  
32 also includes a summary of all the year's major events, which IPC must also report to the OPUC  
33 within 20 days of their occurrence.<sup>10</sup>

34 IPC's filed Electric Service Reliability Annual Reports indicate that at the end of 2011, Idaho  
35 Power served 19,409 customers in Oregon from 63 distribution circuits. The composite  
36 performance of the 63 circuits in 2011 included 691 sustained (more than 5 minutes)  
37 interruptions, 914 momentary events, 73,203 hours out, a System Average Interruption Duration  
38 Index (SAIDI) of 3.47, a System Average Interruption Frequency Index (SAIFI) of 1.41, and a  
39 Momentary Average Interruption Frequency Index (MAIFI) of 3.80.

40

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<sup>3</sup> Oregon Revised Statute 757.035(1).

<sup>4</sup> 860-024-0010 IPC must construct, operate, and maintain electric supply lines in compliance with NESC standards.

<sup>5</sup> OAR 860-024-0010.

<sup>6</sup> OAR 860-023-0100.

<sup>7</sup> OAR 860-023-0110.

<sup>8</sup> OAR 860-023-0120.

<sup>9</sup> OAR 860-023-0150.

<sup>10</sup> OAR 860-023-0160.



1 The SAIFI remained below threshold for interruptions by 2.31 percent. The SAIDI was below  
 2 threshold for customer hours out by 2.32 percent, and the MAIFI momentary interruptions were  
 3 below threshold by 2.59 percent.

### 4 **3.5.3 Other Regulatory Compliance**

5 IPC has a strong record of compliance with state and federal environmental regulations.  
 6 Relevant to the construction and operation of the Project. IPC operates its generation,  
 7 transmission, and distribution facilities in compliance with the requirements of many regulatory  
 8 agencies including the National Oceanic and Atmospheric Administration (Fisheries), ODFW,  
 9 Oregon Department of State Lands, Oregon Occupational Safety and Health Administration  
 10 (OSHA), Oregon Department of Environmental Quality (ODEQ), OPUC, as well as the  
 11 requirements of numerous Oregon cities and counties. In fact, the Company has remained in  
 12 compliance with all such agency requirements over the last 3 years, with the following two  
 13 relatively minor exceptions that were fully addressed.

- 14 1. IPC has secured a number of environmental permits, including Clean Water Act (CWA)  
 15 § 404 and National Pollutant Discharge Elimination System (NPDES) permits. In the last  
 16 3 years, IPC received one Notice of Violation (NOV) for a NPDES permit. The violation  
 17 occurred as a result of increased precipitation causing increased storm water and runoff,  
 18 and at the time the violation occurred, IPC's general contractor was in the process of  
 19 taking remedial measures in response to the unexpected storm event. No additional  
 20 follow up on the NOV was required.
- 21 2. In the last 3 years, IPC has had one isolated incident resulting in a penalty from OSHA.  
 22 In that one incident, a troubleman failed to buckle his harness while in a bucket. In  
 23 response to this incident, IPC held safety meetings across the property to discuss the  
 24 violation, fall protection use was included on the list of daily job briefings; and a formal  
 25 audit was conducted across the property to assure consistent fall protection use.  
 26 Additionally, field leaders conduct formal safety assessments on a monthly basis, which  
 27 includes assessment for "Personal Protective Equipment: Fall Protection."

### 28 **3.5.4 Past Experience in Oregon**

29 The majority of IPC's transmission facilities are located in Idaho; however, as discussed above  
 30 in Section 3.2, IPC owns and maintains approximately 785 miles of transmission line in  
 31 Oregon.<sup>11</sup> Since 2009, IPC has built approximately 27 miles of 69-kV transmission lines in  
 32 Oregon.

33 As demonstrated by Table D-5, IPC has obtained permits from ODEQ to construct and maintain  
 34 projects in Oregon and has fulfilled the terms of these permits.

35 **Table D-5. ODEQ Permits**

Name of Facility	Facility No.	Type
Hells Canyon Power Plant	41297	NPDES
Oxbow Power Plant	41299	NPDES
Oxbow Village	111911	WPCF-OS
Ontario to Ontario Junction Transmission Line	117860	NPDES
Dunnaway to Adrian 69-kV Transmission Line	117963	NPDES
Ontario to Quartz 138-kV Transmission Line Maintenance	118548	NPDES
Quartz to LaGrande Maintenance	118742	NPDES
Neal Hot Spring Transmission Line	120852	NPDES

<sup>11</sup> IPC's transmission lines located in Oregon represent approximately 6.13 percent of its total transmission system.

1 In response to increased electrical demand in the Ontario, Oregon area, IPC has proposed the  
2 Sage Substation project. IPC has built 16 miles of new 138-kV transmission line initially and  
3 currently energized at 69 kV to a junction point called Ontario Junction. At some point in the  
4 future the Ontario Junction will be converted into the proposed Sage Substation. The first phase  
5 of this project, the Ontario to Ontario Junction 138-kV transmission line, was completed in 2011.  
6 IPC applied for and received permits from ODEQ and from the Oregon Department of  
7 Transportation (ODOT) to support construction of the Ontario to Ontario Junction transmission  
8 line. Specifically, IPC obtained a NPDES permit from ODEQ and a Permit to Occupy or Perform  
9 Operations Upon a State Highway from ODOT. The construction work under both permits was  
10 successfully completed without any permit violations or compliance issues. As the Sage  
11 Substation project progresses into later phases, IPC will obtain and comply with the terms of  
12 additional permits necessary to complete the Sage Substation project.

### 13 **3.6 No Past Experience**

#### **OAR 345-021-0010(1)(d)(E)**

14 If the applicant has no previous experience in constructing or operating similar facilities and has not  
15 identified a prime contractor for construction or operation of the proposed facility, other evidence that  
16 the applicant can successfully construct and operate the proposed facility. The applicant may include,  
17 as evidence, a warranty that it will, through contracts, secure the necessary expertise; and  
18

19 Because IPC has extensive past experience with this type of project, this provision is  
20 inapplicable.

### 21 **3.7 ISO Certification Program**

#### **OAR 345-021-0010(1)(d)(F)**

22 If the applicant has an ISO 9000 or ISO 14000 certified program and proposes to design, construct  
23 and operate the facility according to that program, a description of the program;  
24

25 IPC does not propose to design, construct and operate the Project in accordance with an ISO  
26 9000 or ISO 14000 certified program.

### 27 **3.8 Compliance with Standards**

#### **OAR 345-021-0010(1)(d)(G)**

28 If the applicant relies on mitigation to demonstrate compliance with any standards of Division 22 or 24  
29 of this chapter, evidence that the applicant can successfully complete such proposed mitigation,  
30 including past experience with other projects and the qualifications and experience of personnel upon  
31 whom the applicant will rely, to the extent that the identities of such persons are known at the date of  
32 submittal.  
33

34 Based on IPC's extensive experience with projects of this type, IPC will be able to comply with  
35 any and all conditions and mitigation requirements necessary to ensure compliance with  
36 applicable standards. In addition to IPC's engineers and biologist, who are responsible for the  
37 permitting, design, construction, and operation of the Project, as described in Exhibit B, IPC's  
38 habitat mitigation biologists, wildlife and plant biologists, and cultural resource staff will also  
39 assist with any necessary mitigation measures. IPC has in-house expertise in designing,  
40 implementing, and maintaining Informaiton and education panels, recreational opportunities,  
41 fisheries mitigation, and water quality programs to meet mitigation requirements. The majority of  
42 IPC's experience with mitigation is related to impacts of hydroelectric facilities, as described  
43 below. IPC also regularly reseeds disturbed areas and implements noxious weed control for  
44 projects with ground-disturbing activities.

### 1 **3.8.1 Overview of Mitigation Projects for Hydroelectric Facilities**

2 IPC currently owns and operates 17 hydroelectric facilities on the Snake River and its tributaries  
3 in Southern Idaho, under 12 FERC operational licenses. In order to meet the requirements  
4 associated with the compliance of these FERC licenses, IPC has nearly 70 full-time staff  
5 biologists in the Environmental Affairs department who provide expertise in the areas of  
6 Terrestrial, Aquatic, Recreation and Water Quality areas and issues that may occur or be  
7 ongoing in the project boundaries.

8 Included in the requirements of the FERC licenses, IPC Environmental Staff provide for the  
9 planning, research, and ongoing program management and monitoring for state and federal  
10 listed ESA species in conjunction with federal Biological Opinions as part of ongoing operations,  
11 including transmission line rights-of-way included within the FERC licenses. Each license  
12 includes article requirements to protect and manage any ESA species that may be in the project  
13 areas, in coordination and consultation with state and federal regulatory agencies.

14 In each of the FERC licenses, there is an evaluation and statement of licensee capabilities to  
15 provide for the ongoing management of all environmental protection, mitigation, and  
16 enhancement measures (PMEs). To date, the FERC has acknowledged that IPC has the ability  
17 and resources to provide for these measures under each license. IPC has a robust License  
18 Compliance Program that includes two full-time staff who track and document all FERC license  
19 requirements and work closely with each specific resource area.

20 Presently, IPC has over 300 such license articles that contain environmental PMEs and may  
21 have several requirements within each article with which IPC must comply. At this time, IPC is in  
22 substantial compliance with all of our license article requirements. In such cases where PMEs  
23 have changed or these requirements need to be modified to reflect on the ground conditions,  
24 IPC requests an amendment to the license, in consultation with the regulatory agencies who are  
25 involved, and works to obtain approval from the FERC. At this time, IPC has nine such  
26 amendment requests pending FERC approval.

27 For the C.J. Strike and Mid Snake Project Licenses that were received from FERC in 2004 and  
28 2005, IPC currently has 77 license articles/compliance programs that are directly related to  
29 compensatory mitigation for environmental resources at the projects. These include Water  
30 Quality, Recreation, Aquatic and Terrestrial, or Land Management activities.

31 Additional information regarding IPC's satisfaction of regulatory requirements through the  
32 development of the C.J. Strike Area is provided below.

### 33 **3.8.2 C.J. Strike Area**

34 IPC assumed management of 3,000 acres (owned by IPC but previously managed by the Idaho  
35 Department of Fish and Game [IDFG] within the C.J. Strike Wildlife Management Area in 2005;  
36 management of this area is coordinated with IDFG). IPC's August 2004 FERC license for the  
37 C.J. Strike Project included (but were not limited to) the following requirements:

- 38 • Dissolved Oxygen and Water Temperature Monitoring Plan (LA405), filed with the FERC  
39 on 2/4/2005;
- 40 • Total Dissolved Gas (TDG) monitoring plan (LA406), also filed on 2/4/2005;
- 41 • White Sturgeon Conservation Plan (LA408), filed on 8/4/2005;
- 42 • Fish Stocking Plan (LA409), filed on 8/4/2005;
- 43 • Snail Study Plan (LA410), filed as part of the Upper Salmon, Lower Salmon, and Bliss  
44 Projects also, which describes a 6-year study in cooperation with the U.S. Fish and

1 Wildlife Service to assess the impacts of load following operations vs. run of river on  
2 listed snails known to occur in the project area;

- 3 • Snail Protection Plan (LA411), as noted above, part of the other licensed projects,  
4 following the final report re: the study plan for LA410;
- 5 • Riparian Habitat Acquisition Plan (LA412), filed on 8/4/2005, which spells out the  
6 acquisition of at least 170 acres of riparian wetland or spring habitat. IPC purchased the  
7 Turner Ranch on the Bruneau River upstream of the project reservoir and has been  
8 managing this area for riparian/wetland habitat, approximately 360 acres. This area was  
9 included in the project boundary and is managed with the other habitat areas out of the  
10 CJWMA Headquarters, constructed in 2008/9;
- 11 • C.J. Strike Wildlife Management Area Operations and Management Agreement (LA413),  
12 filed on 8/4/2005, where IPC reached agreement with the IDFG that IPC would take over  
13 ongoing operations and maintenance of its lands in the project area (~3000 acres). IDFG  
14 had been managing these lands under contract with IPC for the first 50 years of the  
15 original license;
- 16 • Visual Resource Management Plan (LA414), filed on 8/4/2005, including signage,  
17 interpretive kiosks at 4 viewpoints;
- 18 • Historic Properties Management Plan (LA415), filed as part of the license application  
19 and implemented under the Programmatic Agreement (PA) with state, federal and tribal  
20 agencies to identify and protect cultural resources in the project area;
- 21 • C.J. Strike Land Management Plan (LA416), filed on 2/4/2005, which spells out how IPC  
22 will manage its lands and any that were acquired under LA412 above; and
- 23 • Recreation Management Plan (LA417), filed on 8/4/2005, which identified those  
24 construction-related projects to enhance existing recreation facilities as well as new ones  
25 to provide facilities for the public use.

26 Each article plan listed above required IPC to consult with the local, state, and federal agencies  
27 and non-governmental organizations in the development of the plans, prior to FERC submittal  
28 for approval. Following FERC approval, IPC initiated these projects and has been actively  
29 engaged in the ongoing operations and maintenance and annual reporting to all parties  
30 involved. IPC tracks compliance with all license article requirements at each licensed facility and  
31 annually certifies its compliance to senior and executive management.

32 FERC has held two formal environmental inspections and one site visit since the new license  
33 was issued in 2004. In all cases, the FERC's follow-up letters indicated that the projects were in  
34 compliance, or minor remedies were needed to correct deficiencies. IPC has complied with all  
35 requests for such remedies and is in compliance with the license requirements. For the recent  
36 site visit in 2012, IPC had submitted revised LMPs for FERC approval, and FERC completed a  
37 follow-up visit to the project to confirm those changes to the plan that IPC proposed. FERC's  
38 follow-up letter was very complimentary of IPC's management of such lands and the staff who  
39 were involved.

40 For each of the license articles listed above, as well as other license requirements for all other  
41 FERC licensed projects, IPC is in substantial compliance (see Section 3.8.3 below) and has met  
42 each deadline that FERC proposed as well as ongoing requirements.

### 43 **3.8.3 Adaptive Management**

44 Over the course of a 30-year license, conditions change at a mitigation project. For this reason,  
45 the licensee has the ability to identify those areas/items related to license article conditions and  
46 to propose to change the article's requirements to meet current/future conditions. This process  
47 is referred to as adaptive management. In practicing adaptive management, the licensee may

1 meet with the relevant resource agencies to discuss the discrepancies and develop remedies  
 2 that are agreeable to all parties, and develop an amendment application to the FERC for their  
 3 consideration. These amendment applications can be as minor as changing the monitoring  
 4 schedule to the total elimination of a license article requirement that may not necessary  
 5 anymore. In any case, the IPC works with the consulting entities and files a consultation  
 6 summary of this interaction with the amendment application. IPC has nine such amendments  
 7 pending before the FERC at this time, awaiting their approval.

#### 8 **3.8.4 FERC License Auditing and IPC's Compliance Record**

9 The FERC tracks licensee's compliance on an ongoing basis, and as mentioned earlier,  
 10 schedules regular environmental inspections of licensed projects. In the past 3 years, IPC has  
 11 cooperated with three separate environmental inspections by the FERC, and with minimal follow  
 12 up items, passed each one. IPC has not received a letter of non-compliance for any land  
 13 management, fisheries, or recreational program mitigation requirements.

14 IPC's Hydro Compliance program conducts an annual audit of its licensing conditions across all  
 15 its 12 FERC licensed projects, and certifies to senior/executive management that it has and will  
 16 continue to comply with all requirements contained within the licenses, as well as corporate  
 17 policies and standards.

## 18 **4.0 CONCLUSIONS**

19 IPC's Exhibit D fulfills the requirements of OAR 345-021-0010(1)(d), and establishes that IPC  
 20 has the organizational expertise to construct, operate, and retire the Project in compliance with  
 21 the Council's organizational expertise standard in OAR 345-022-0010.

## 22 **5.0 SUBMITTAL AND APPROVAL COMPLIANCE MATRIX**

23 Table D-6 provides cross references between Exhibit submittal requirements of OAR 345-021-  
 24 0010 and where discussion can be found in this Exhibit.

25 **Table D-6.** Submittal Requirements Matrix

Requirement	Location
<b>OAR 345-021-0010(1)(d)</b>	
(d) <b>Exhibit D.</b> Information about the organizational expertise of the applicant to construct and operate the proposed facility, providing evidence to support a finding by the Council as required by OAR 345-022-0010, including:	
(A) The applicant's previous experience, if any, in constructing and operating similar facilities.	Section 3.2
(B) The qualifications of the applicant's personnel who will be responsible for constructing and operating the facility, to the extent that the identities of such personnel are known when the application is submitted	Section 3.3
(C) The qualifications of any architect, engineer, major component vendor, or prime contractor upon whom the applicant will rely in constructing and operating the facility, to the extent that the identities of such persons are known when the application is submitted.	Section 3.4
(D) The past performance of the applicant, including but not limited to the number and severity of any regulatory citations in constructing or operating a facility, type of equipment, or process similar to the proposed facility.	Section 3.5

26

**Table D-6. Submittal Requirements Matrix (continued)**

Requirement	Location
(E) If the applicant has no previous experience in constructing or operating similar facilities and has not identified a prime contractor for construction or operation of the proposed facility, other evidence that the applicant can successfully construct and operate the proposed facility. The applicant may include, as evidence, a warranty that it will, through contracts, secure the necessary expertise.	Section 3.6
(F) If the applicant has an ISO 9000 or ISO 14000 certified program and proposes to design, construct and operate the facility according to that program, a description of the program.	Section 3.7
(G) If the applicant relies on mitigation to demonstrate compliance with any standards of Division 22 or 24 of this chapter, evidence that the applicant can successfully complete such proposed mitigation, including past experience with other projects and the qualifications and experience of personnel upon whom the applicant will rely, to the extent that the identities of such persons are known at the date of submittal.	Section 3.8
<b>OAR 345-022-0010</b>	
(1) To issue a site certificate, the Council must find that the applicant has the organizational expertise to construct, operate and retire the proposed facility in compliance with Council standards and conditions of the site certificate. To conclude that the applicant has this expertise, the Council must find that the applicant has demonstrated the ability to design, construct and operate the proposed facility in compliance with site certificate conditions and in a manner that protects public health and safety and has demonstrated the ability to restore the site to a useful, non-hazardous condition. The Council may consider the applicant's experience, the applicant's access to technical expertise and the applicant's past performance in constructing, operating and retiring other facilities, including, but not limited to, the number and severity of regulatory citations issued to the applicant.	Throughout Exhibit D
(2) The Council may base its findings under section (1) on a rebuttable presumption that an applicant has organizational, managerial and technical expertise, if the applicant has an ISO 9000 or ISO 14000 certified program and proposes to design, construct and operate the facility according to that program.	Not applicable
(3) If the applicant does not itself obtain a state or local government permit or approval for which the Council would ordinarily determine compliance but instead relies on a permit or approval issued to a third party, the Council, to issue a site certificate, must find that the third party has, or has a reasonable likelihood of obtaining, the necessary permit or approval, and that the applicant has, or has a reasonable likelihood of entering into, a contractual or other arrangement with the third party for access to the resource or service secured by that permit or approval.	Not applicable
(4) If the applicant relies on a permit or approval issued to a third party and the third party does not have the necessary permit or approval at the time the Council issues the site certificate, the Council may issue the site certificate subject to the condition that the certificate holder shall not commence construction or operation as appropriate until the third party has obtained the necessary permit or approval and the applicant has a contract or other arrangement for access to the resource or service secured by that permit or approval.	Not applicable

**Table D-6.** Submittal Requirements Matrix (continued)

Requirement	Location
<b>Project Order</b>	
Regarding the ability to successfully construct the project “in accordance with site certificate conditions,” the Council’s review is not limited to IPC’s ability to construct a transmission line. The application must also demonstrate that IPC can honor all commitments and conditions regarding minimization and mitigation of impacts on the resources protected by Council standards and applicable regulations of other agencies.	Section 3.8
Exhibit D should include a safety and environmental regulatory compliance history for the last three years that is focused on similar facilities owned or operated by the applicant, such as transmission lines and substations. If possible, evidence of successful completion of mitigation projects should also be provided.	Section 3.5, Section 3.8

1 **6.0 RESPONSE TO COMMENTS FROM REVIEWING AGENCIES AND**  
 2 **THE PUBLIC**

3 There were no comments from reviewing agencies and the public regarding Exhibit D.

4 **7.0 REFERENCES**

5 No references.