Exhibit O Water Use

Boardman to Hemingway Transmission Line Project



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Preliminary Application for Site Certificate

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LIST OF ATTACHMENTS

Attachment O-1. Record of Communications with Municipal Water Providers

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ACRONYMS AND ABBREVIATIONS

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

О°С	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
ASP	Archaeological Survey Plan
ASCE	American Society of Civil Engineers
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 ₂ 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	Clean Water Act of 1972
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 _{dn}	day-night sound level
L _{eq}	equivalent sound level
	pound
	Land Conservation and Development Commission
	Lost Dutchman's Mining Association
	light detection and ranging
LII	Local Implementation Leam

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
μV/m	microvolt per meter
N ₂ O	nitrous oxide
NAIP	National Agriculture Imagery Program
NED	National Elevation Dataset
NEMS	National Energy Modeling System
NEPA	National Environmental Policy Act of 1969
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 ₃	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
Р	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/vear
TDG	Total Dissolved Gas
TES	threatened, endangered, and sensitive (species)
TG	Timber Grazing
TMIP	Transmission Maintenance and Inspection Plan
TNC	The Nature Conservancy
tov	tons per vear
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

Exhibit O 1

Water Use 2

INTRODUCTION 1.0 3

Exhibit O provides an analysis of water use for the Boardman to Hemingway Transmission Line 4 Project (Project). Exhibit O demonstrates that Idaho Power Company (IPC) will comply with 5 Oregon Administrative Rule (OAR) Chapter 345, Division 22 relating to water use, based on 6 information provided pursuant to OAR 345-021-0010(1)(o) paragraphs (A) through (C) and (E). 7 8 Specifically, Exhibit O demonstrates that water use requirements for construction and operations of the Project are minimal and will not result in adverse impacts to water resources. 9

Exhibit O provides detailed information regarding the nature of water use during construction 10

and operation of the Project, estimated water quantities that will be needed during both the 11 construction and operations phases of the Project, identified sources for the needed water, and 12

anticipated water losses. Exhibit O establishes that Idaho Power Company (IPC) will be able to 13

14 procure all needed water from municipal water sources. Accordingly, no groundwater permit,

surface water permit, or water right transfer will be required by the Project. This exhibit does not 15

analyze the impacts that the Project's water use will have on the municipal providers, as that 16

analysis is set forth in Exhibit U to this Application for Site Certificate (addressing the Project's 17

potential impacts to public services, including water providers). Additionally, because the 18

Project's water use will not have adverse impacts on affected resources, IPC does not propose 19

any mitigation actions. 20

2.0 **APPLICABLE RULES AND STATUTES** 21

- 22 In accordance with OAR 345-021-0010(1)(o), Exhibit O must include the following in relevant 23 part:
- A. A description of the use of water during construction and operation of the proposed 24 25 facility;
- 26 B. A description of each source of water and the applicant's estimate of the amount of water the facility will need during construction and operation from each source under 27 annual average and worst-case conditions; 28
- C. A description of each avenue of water loss or output from the facility site for the uses 29 described in (A), the applicant's estimate of the amount of water in each avenue 30 under annual average and worst-case conditions and the final disposition of all 31 wastewater including estimated amounts of water loss or output; 32
- **** 33
- 34 E. If the proposed facility would not need a groundwater permit, a surface water permit 35 or a water right transfer, an explanation of why no such permit or transfer is required for the construction or operation of the proposed facility. 36

Additionally, the Project Order requires Exhibit O to provide evidence that the facility will comply 37 with Oregon water rights laws. Specifically, the Project Order requires Exhibit O to include: 38

Evidence and analysis to determine whether a new water right or water right transfer is 39 40 required, and if so, evidence that supports a finding by the Council that the water right should be issued. 41

1 3.0 ANALYSIS

2 3.1 Analysis Area

Pursuant to the Project Order, the analysis area for Exhibit O is the Site Boundary, which is
defined in OAR 345-001-0010(55) as "the perimeter of the site of a proposed energy facility, its
related or supporting facilities, all temporary laydown and staging areas, and all corridors and
micrositing corridors proposed by the applicant." The Site Boundary for the Project includes the
following related and supporting facilities in Oregon:

- Proposed Corridor: 277.2 miles of 500-kilovolt (kV) transmission line corridor, 5.0 miles of double circuit 138/69-kV transmission line corridor, and 0.3 mile of 138-kV transmission line corridor.
- Alternate Corridor Segments: Seven alternate corridor segments consisting of approximately 134.1 miles that could replace certain segments of the Proposed Corridor.
 IPC has proposed these alternate corridor segments in order to allow flexibility for IPC and EFSC, as well as federal agencies, to reconcile competing resource constraints in several key locations.
- One proposed substation expansion of 3 acres; two alternate substation sites (one 3-acre substation expansion and one new 20-acre substation). IPC ultimately needs to construct and operate only one substation expansion or substation in the Boardman area.
- Eight communication station sites of less than one acre each in size; four alternate communication station sites along alternate corridor segments.
- Temporary and permanent access roads.
- Temporary multi-use areas, pulling and tensioning sites, and fly yards.

The features of the Project are fully described in Exhibit B and the Site Boundary for each
Project feature is described in Exhibit C, Table C-21. The location of the Project (Site Boundary)
is outlined in Exhibit C.

27 **3.2 Methods**

Estimated quantities of Project water use were provided by IPC's engineering group and IPC's
engineering contractor, Pike Energy Solutions (Pike). IPC and Pike have experience that
qualifies them to make these estimates, as detailed in Exhibit D. Municipal water providers
located within the counties where the Project is proposed were contacted to verify that they
have adequate water available to provide water for the Project without impacting their supplies.

33 **3.3 Information Required by OAR 345-021-0010(1)(o)**

34 3.3.1 Water Uses

35 OAR 345-021-0010(1)(o)(A) – Water Use During Construction and Operation

36 A description of the use of water during construction and operation of the proposed facility.

37 Construction of the Project transmission lines, access roads, and the proposed Grassland

38 Substation, or the Horn Butte and Longhorn Alternate Substations, will require water. Major

- 39 water uses are for transmission line structure foundations and substation foundations, access
- road construction, dust control during right-of-way (ROW) clearing, substation grading and site
- 41 work, and re-seeding restoration work upon Project completion. A minor amount of water will be

- used to establish substation landscaping where required during construction. Drilling and fire
 prevention also may require minor amounts of water.
- In the construction of the transmission line foundations, if the concrete is not obtained from commercial sources, but prepared at the batch plants located at multi-use areas, water will be transported to the concrete batch plant sites where it will be used to mix concrete. From the batch plants, the concrete (ready-mix) will be transported to the structure sites in concrete trucks for use in foundation installations. For analysis and certification purposes, it is assumed that all concrete will be produced at the multi-use areas. However, wherever possible concrete will be purchased from commercial aggregate plants, thereby reducing the amount of water
- 9 will be purchased from commercial aggregate plants,10 storage and water use at multi-use areas.
- 11 Other water uses during foundation construction include water to prepare drilling slurry required
- 12 to maintain excavations for drilled shaft foundation construction, if required due to soil
- conditions, and water used by concrete trucks to wash chutes and drums after deliveringconcrete.
- 15 Water usage for access road construction is primarily for moisture conditioning of new bladed 16 roads necessary to achieve adequate compaction to support heavy equipment travel.
- 17 Construction of the transmission lines and related facilities will generate a temporary increase in
- 18 fugitive dust. Water will be applied to disturbed areas and unpaved roadways using water trucks 19 as needed to minimize dust.
- 20 Water usage for restoration will include the water needed to prepare and apply the hydro mulch
- 21 to help stabilize disturbed slopes and reseeding of disturbed work areas after construction
- 22 activities are complete.
- 23 Water usage for substation construction will be primarily for dust control during site preparation
- work. During this period, construction equipment will be cutting, moving, and compacting the
- subgrade surface. As a result, water will be used to compact the subgrade material prior to
- foundation construction, and trucks providing dust control will make as many as one pass per
- 27 hour over the substation site. Once site preparation work is complete, concrete for the
- 28 placement of foundations will become the largest user of water, and dust control will be minimal.
- If substation landscaping is required, drought-tolerant plants will be used to minimize wateringrequirements after plant establishment.
- Normal operations and maintenance of the transmission line and substation will not require any water use.

33 3.3.2 Water Sources and Estimated Amounts

- 34 OAR 345-021-0010(1)(0)(B) Sources of Water and Estimated Amounts
- A description of each source of water and the applicant's estimate of the amount of water the facility
 will need during construction and during operation from each source under annual average and worst case conditions.
- 38 The Project will contract with municipal water providers along the transmission-line route,
- including the City of Boardman, City of Pendleton, City of La Grande, Baker City, and City of
- 40 Ontario, most likely under contracts between the water providers and the Project construction

41 contractor. If needed, the contracts could be executed directly between the water providers and

- 42 IPC. Representatives for each municipal water provider have stated that they have adequate
- 43 supply to fulfill Project needs during construction. As explained above, minor amounts of water
- 44 will be required during operation and maintenance at the proposed Grassland Substation or the

- 1 Horn Butte or Longhorn alternate substations. In addition, IPC contacted the City of Nampa,
- 2 Idaho to confirm that municipal water providers in Idaho have adequate water to supply the
- a needs for the southern part of the Project in Oregon and the Idaho portion of the Project. Water
- 4 provider contacts include:
- Dave Winters, City of Boardman Public Works, 541-481-9252
- Bob Patterson, City of Pendleton Public Works, 541-966-0201
- Lee Mannor, City of La Grande Public Works, 541-962-1325
- Michelle Owen, Baker City Public Works, 541-524-2031
- 9 Chuck Mickelson, City of Ontario Public Works, 541-889-7684
- Daniel Badger, City of Nampa Waterworks Division, 208-468-5860
- 11 Further details regarding assurance of adequate water supply from these providers are included
- 12 in Attachment O-1. In addition, IPC mailed letters to each water provider requesting
- documentation that they are willing and able to provide water, and confirming that doing so
- 14 would not adversely impact their ability to provide water for other uses or restrict future growth.
- These letters are included in Attachment O-1, followed by written responses from water providers.
- 17 During construction, water obtained from these contracted sources will be pumped into tanker
- 18 trucks at locations indicated by municipal providers and transported to Project staging areas.
- Approximately 12.7 million gallons will be needed during the approximately 36-month
- 20 construction period, which is anticipated to commence no sooner than 2015 and continue to the
- 21 planned in service date, no sooner than 2018 (see Exhibit B, Section 3.6 for a detailed
- 22 construction schedule). A breakdown of the anticipated water requirements by county is
- included in Table O-1. The amount of water required for the Project is equivalent to
- approximately 38 acre-feet, or the amount of water that 29 typical families use over the same
- time period (based on the Environmental Protection Agency [2011] estimate of 400 gallons per
- 26 day per family, applied over the 3-year construction schedule).
- 27 The amount of water required for dust control will depend on precipitation, temperature, soil
- conditions, and frequency of use. Dust control water application may also include eco-safe
- biodegradable, liquid copolymers to stabilize unpaved road surfaces and manage fugitive dust
- 30 where extended use is anticipated. Average water use for dust control along the transmission
- line and related facilities was estimated assuming that one 3,000-gallon water truck will operate
 in each county, emptying its tank twice per day during construction. However, it is anticipated
- 33 that the use of water will be more heavily concentrated over the earlier portions of the schedule
- 34 during access road construction, foundation construction and tower erection. Water for dust
- 35 control at the Substation was estimated based on the specific construction sequence planned at
- that facility. Worst-case water use for the Project would occur if the weather were exceptionally
- dry with high temperatures, which would require additional water for dust control. Worst-case
- estimates (shown in Table O-1) were calculated assuming a 50 percent increase in water use
- 39 for all Project dust control throughout construction.
- 40 As each municipality has confirmed sufficient available capacity to meet the estimated water
- needs of the Project, impacts to above-ground (surface water) or below-ground (groundwater)
 water supplies are not anticipated as a result of Project construction or operation.
- As indicated in the footnote to Table O-1, water estimates are provided for the Proposed
- 44 Corridor. The same amounts are assumed for the various alternate corridor segments because
- the total corridor distances, terrain, and access are similar.

County	Water Source	Foundation Construction (gallons)	Substation (gallons)	Communication Station Sites (gallons)	Dust Abatement (gallons)	Road Construction (gallons)	Restoration (gallons)	Total Water, Duration (gallons)	Annual Average Water Use (gallons/vear)	Total Worst-Case Water Use (gallons)
Morrow	City of Boardman Public Works	490,000	263,500	400	1,268,000	28,600	206,000	2,256,500	752,200	2,890,500
Umatilla	City of Pendleton Public Works	377,000	NA	400	1,341,000	18,200	131,000	1,867,600	622,500	2,538,000
Union	City of La Grande Public Works	312,000	NA	700	1,058,000	46,800	336,000	1,753,500	584,500	2,283,000
Baker	Baker City Public Works	555,000	NA	700	2,118,000	80,600	580,000	3,334,300	1,111,000	4,393,300
Malheur	City of Ontario Public Works	534,000	NA	1,100	2,039,000	111,800	803,000	488,900	1,163,000	4,508,400
	Total	2,268,000	263,500	3,300	7,824,000	286,000	2,056,000	12,701,000	4,233,000	16,163,000

Table O-1.	Estimated Water Use for Construction Activities by County ¹	

¹ Water estimates are provided for the Proposed Corridor. Because the corridor distances are similar and the corridors are generally parallel, the same amounts are assumed for the various alternate corridor segments. Owyhee County is not included because it is outside the Oregon portion of the Project.

1 **3.3.3 Water Losses**

2 OAR 345-021-0010(1)(0)(C) – Water Losses or Outputs

A description of each avenue of water loss or output from the facility site for the uses described in (A), the applicant's estimate of the amount of water in each avenue under annual average and worst-case conditions and the final disposition of all wastewater.

6 The following describes water losses or outputs associated with water used for construction of the Project. Water used during construction for dust control (approximately 7.7 million gallons 7 annual average, 11.5 million gallons under worst-case conditions) and hydro-mulching 8 restoration, will infiltrate into the ground or evaporate into the atmosphere. The amount of water 9 used for dust control will be sufficiently small that runoff will not occur outside of the Site 10 11 Boundary. Water used for foundations (approximately 2.3 million gallons) will remain in the 12 concrete mix. Management and handling of concrete truck washout areas and disposal of 13 excess or degraded drilling slurry are addressed in Exhibit V. No Project wastewater will be discharged into wetlands, lakes, rivers, or streams. No water use or discharges are anticipated 14 during operations. 15

16 **3.3.4 Water Balance Diagram for Thermal Power Plants**

17 OAR 345-021-0010(1)(o)(D) – Water Balance Diagram

- 18 For thermal power plants, a water balance diagram, including the source of cooling water and the 19 estimated consumptive use of cooling water during operation, based on annual average conditions.
- 20 Because the Project is not a thermal power plant, this standard is not applicable.

21 **3.3.5** *Explanation for No Permits or Transfers*

22 OAR 345-021-0010(1)(0)(E) – Explanation for No Permits or Water Right Transfers

If the proposed facility would not need a groundwater permit, a surface water permit or a water right
 transfer, an explanation of why no such permit or transfer is required for the construction and
 operation of the proposed facility.

The Project's need for water is temporary, occurring only during the construction of the Project. Water will be procured from municipal suppliers along the Project, and no groundwater permit, surface water permit, or water right transfer will be required. The municipal water rights will allow use for industrial purposes such as a transmission line project. Because no new water rights will be necessary for the Project, neither a Limited License for construction use nor other Water Right Permits will be required.

Attachment O-1 summarizes IPC communications with the municipal suppliers, who have each indicated willingness and ability to supply water for the Project. Letters from IPC to water

- 34 suppliers requesting documentation that they are willing and able to provide water and
- responses from water providers are included in Attachment O-1. Based on communications with
- 36 the municipal water providers, estimated water requirements and calculated equivalent family
- demand over the approximately 300-mile-long Project, the water requirement will be minimal
- and is not expected to injure any existing water rights or restrict planned future growth near theProject.

1 **3.3.6** *Permit or Transfer Information*

2 OAR 345-021-0010(1)(o)(F) – Permits or Transfers Required

If the proposed facility would need a groundwater permit, a surface water permit or a water right
 transfer, information to support a determination by the Council that the Water Resources Department
 should issue the permit or transfer of a water use, including information in the form required by the
 Water Resources Department under OAR chapter 690, divisions 310 and 380.

As described in the previous section, water will be procured from municipal suppliers along the
 Project, and no groundwater permit, surface water permit, or water right transfer will be

9 required. As a result, this standard is not applicable.

10 3.3.7 Mitigation Measures

11 OAR 345-021-0010(1)(o)(G) – Actions to Mitigate Adverse Impacts

12 A description of proposed actions to mitigate the adverse impacts of water use on affected resources.

- 13 Based on assurances from municipal water providers, which will supply Project construction
- 14 needs, no adverse impacts are expected to result from water use at the Project during
- 15 construction and operation; therefore, no mitigation measures are proposed.

16 **4.0 CONCLUSIONS**

17 IPC has demonstrated that it complies with the Council's general standard of review found in

OAR 345-022-0000(1)(b). IPC's Exhibit O provides all the information required by OAR 345 021-0010(1)(o).

20 5.0 SUBMITTAL AND APPROVAL COMPLIANCE MATRICES

21 Tables O-2 and O-3 provide cross references between Exhibit submittal requirements of OAR

22 345-021-0010 and the Council's Approval standards of OAR 345-022-0000 and where

23 discussion can be found in the Exhibit.

24 **Table O-2.** Submittal Requirements Matrix

Requirement	Location
OAR 345-021-0010(1)(o)	
(o) Exhibit O. Information about anticipated water use during construction and operation of the proposed facility. The applicant shall include:	
(A) A description of the use of water during construction and operation of the proposed facility.	Section 3.3.1
(B) A description of each source of water and the applicant's estimate of the amount of water the facility will need during construction and during operation from each source under annual average and worst-case conditions.	Section 3.3.2, Table O-1
(C) A description of each avenue of water loss or output from the facility site for the uses described in (A), the applicant's estimate of the amount of water in each avenue under annual average and worst-case conditions and the final disposition of all wastewater.	Section 3.3.3

Requirement Location (D) For thermal power plants, a water balance diagram, Because the Project is not a including the source of cooling water and the estimated thermal power plant, this consumptive use of cooling water during operation, based standard is not applicable on annual average conditions. (Section 3.3.4) (E) If the proposed facility would not need a groundwater Section 3.3.5 permit, a surface water permit or a water right transfer, an explanation of why no such permit or transfer is required for the construction and operation of the proposed facility. (F) If the proposed facility would need a groundwater Because municipal water permit, a surface water permit or a water right transfer, providers would supply water for information to support a determination by the Council that the Project, groundwater the Water Resources Department should issue the permit or permits, surface water permits, transfer of a water use, including information in the form or water right transfers would not required by the Water Resources Department under OAR be required, and this standard is chapter 690, divisions 310 and 380. not applicable (Section 3.3.6) (G) A description of proposed actions to mitigate the adverse Section 3.3.7 impacts of water use on affected resources. **Project Order Comments** Exhibit O of the application must identify the sources of Sections 3.1.1 through 3.3.7 water to be used during construction and operation of the proposed facility, the water right under which the water would be provided, the quantity of water needed, and the means of disposal of all water discharges from the proposed facility. The application should provide evidence and analysis to determine whether a new water right or water right transfer is required, and if so, evidence that supports a finding by the Council that the water right should be issued. [See ORS Chapter 537 (Appropriation of Water Generally) or transfer of a water use under ORS Chapter 540 (Transfer or Forfeiture of Water Rights), including a discussion and evaluation of all relevant factors, including those factors listed in ORS 537.153(2) and (3), ORS 537.170(8) and OAR Chapter 690, Divisions 310 (Water Right Application Processing) and 380 (Water Right Transfers).] Water not obtained from a municipal supplier would require Because water would be a Limited License. Because such licenses cannot authorize provided by municipal providers. use or discharge of water outside a single basin, multiple Limited Licenses would not be Limited Licenses may be required. Limited Licenses are also required, and this requirement is under Council jurisdiction. not applicable (Section 3.3.5) If a new water right, water right transfer, or Limited License Because water would be is required, Exhibit O must include adequate evidence for provided by municipal providers, the Council to evaluate and make findings approving the new water rights, water right transfers, or Limited Licenses required permit or license. The applicant should consult with the Oregon Water Resources Department to ensure that all would not be required, and this information otherwise required by OWRD is included in the requirement is not applicable site certificate application. (Section 3.3.5)

1 **Table O-2.** Submittal Requirements Matrix (continued)

1 **Table O-3.** Approval Standard

Requirement	Location
The Oregon EFSC does not have a specific standard relating to water use. Instead, the relevant approval standard is found in OAR 345-022-0000 , which provides that in order to issue a site certificate, the Council must find that:	Section 3.3
The preponderance of evidence on the record supports the conclusion that the facility complies with all other Oregon statutes and administrative rules identified in the Project Order, as amended, as applicable to the issuance of a site certificate for the proposed facility.	

2 6.0 RESPONSE TO COMMENTS FROM REVIEWING AGENCIES AND 3 THE PUBLIC

4 Table O-4 cross references comments cited in the Project Order from reviewing agencies and

5 the public and where discussion can be found in the exhibit.

6 **Table O-4.** Reviewing Agency and Public Comments

Comments Related to General Standard of Review	
(OAR 345-022-0000)	Location
Impacts to water sources should be addressed in Exhibit I (especially erosion and sediment control and impacts of herbicide use); on above- and below-ground water supplies, Exhibit O (Water use and sources), Exhibit P (especially impacts to fish-bearing streams from construction activities and herbicide use).	Impacts to water supplies are addressed in Sections 3.3.2 and 3.3.7 and Attachment O-1. Other impacts to water sources are addressed in Exhibits L and P. as
	noted in the Project
	Order comment.

7

8 7.0 REFERENCES

9 Environmental Protection Agency. 2011. Water Sense [Internet]. Available online at:

10 http://www.epa.gov/WaterSense/pubs/indoor.html.

ATTACHMENT O-1 RECORD OF COMMUNICATIONS WITH MUNICIPAL WATER PROVIDERS

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Exhibit O

other uses or restrict future growth. These letters are included following the summary table below, followed by written responses from The following table summarizes preliminary communications with municipal water providers who are willing and have adequate water subsequent Project design. The current estimates are presented in Table O-1 of this exhibit. All of the listed suppliers have provided IPC with either oral or written assurances that the amounts of water requested by IPC will be available at the time of construction. In (based on the updated estimates), and confirming that doing so would not adversely impact the providers' ability to provide water for addition, IPC mailed letters to municipal water providers requesting documentation that they are willing and able to provide water available to supply the Project. The water volumes in this table represent the initial Project estimates, which were revised during water providers.

		Preliminary Estimates of Water Quantity Needed		
County	Water Source	(gallons)	Contact Person	Municipal Water Provider Assurance
Morrow	Boardman	2,013,900	Dave Winters Public Works Director	Dave Winters provided oral assurance that there is adequate water supply to fulfill the Project needs.
			(541) 481-9252 publicworks@cityofboardman.com	Voicemail, 6/2/2011, 12:54pm
Umatilla	Pendleton	2,000,000	Bob Patterson Dublic Mortes Director	"We have the capacity [] to provide about 2,000,000 callons of water during the construction from 2013 to
			(541) 966-0201	[2015]. We are presently setting up fill stations for water
			bob.patterson@ci.pendleton.or.us	haulers / contractors at various locations in town. This will
				allow the contractor to set up an account with the City and
				till from any or the fill locations via an access code at any time. We would bill water use based on a monthly base
				charge (to be determined in the near future) and our current
				volumetric charge (about \$1.05 per 748 gallons or \$5.60
				per 4,000 gallon water truck tank). So when construction is
				ready to pass through our area, your contractor would just
				ited to contact the Oity of Perioretori to make arrandements in setting un an account "
				Email, 6/1/2011, 5:23pm
Union	La Grande	1,500,000	Lee Mannor	Lee Mannor provided oral assurance that there is adequate
			Water Superintendent	water supply to fulfill the Project needs.
			Norman J Paullus, Jr.	Phone call, 6/2/2011, 1:19pm
			Public Works Director	
			(541) 962-1325	
			publicworks@cityoflagrande.org	

Boardman to Hemingway Transmission Line Project

Exhibit O

		Preliminary Estimates of Water Quantity Needed		
County	water source	(galions)	Contact Person	Inunicipal water Provider Assurance
Baker	Baker City	2,900,000	Michelle Owen <i>Public Works Director</i> (541) 524-2031 mowen@bakercity.com	"The City has adequate water supply as we have 200 million gallons stored in the aquifer for municipal use as well as the ability to draw from our surface water to meet our daily demand. The proposed usage from 2013-2015 is approximately equivalent to one to two days worth of water usage for the City. The City does have a water curtailment ordinance in place and should there be drought conditions (which seems unimaginable at this point!) [t]he first items curtailed would be irrigation and dust abatement so that could potentially impact the City's ability to supply water for that portion of the project." <i>Email, 6/1/2011, 5:26pm</i>
Malheur	Ontario	2,800,000	Chuck Mickelson Public Works Director (541) 889-7684 chuck.mickelson@ontariooregon.org	"I am sure that the City of Ontario can accommodate the needs of a contractor locally." <i>Email,</i> 6/1/2011, 6:12pm
Owyhee	Nampa	1,251,000	Daniel Badger S <i>taff Engineer</i> (208) 468-5860 badgerd@cityofnampa.us	Daniel Badger provided oral assurance that there is adequate water supply to fulfill the Project needs. <i>Phone call, 6/2/2011, 10:07am</i>
¹ Owyhee Co	ounty, Idaho is inclu	ided to demonstrate	that adequate municipal water is available in	r Idaho to provide for the portion of the Project in Idaho.

Letters to Water Providers



March 13, 2012

Mr. Dave Winters, Public Works Director City of Boardman, Public Works Department 200 City Center Circle P.O. Box 229 Boardman, Oregon 97818 publicworks@cityofboardman.com

Subject: Idaho Power's Boardman to Hemingway Transmission Line Project

Dear Mr. Winters:

Idaho Power Company (IPC) is proposing to construct the Boardman to Hemingway Project, an approximately 300-mile transmission line from the Grassland Substation near Boardman, Oregon to the Hemingway Substation in southwest Idaho. More information is available at http://www.boardmantohemingway.com Construction of the transmission line would begin in approximately fall 2013 and continue to the planned in-service date in summer 2016.

The major water needs for the Project would occur during construction, and include water for foundation concrete mixing and dust control during grading and site work. In Morrow County, Project water needs for construction are estimated at approximately 1,986,000 gallons, or approximately 662,000 gallons per year for three years.

IPC currently is seeking permits for the Project via Oregon's Department of Energy, Energy Facilities Siting Council (EFSC). Permitting requirements include providing evidence that the Project will not result in significant adverse impacts to the ability of water providers like the City of Boardman to meet other water needs or provide water for other uses.

Based on our preliminary communications with you (in June 2011), it is our understanding that the City of Boardman's water supplies are adequate to meet Project needs in Morrow County (estimated above) without affecting your ability to serve other water demands and without restricting planned future growth. Also, we understand that the City of Boardman's water rights allow use for industrial purposes such as a transmission line project.

IPC respectfully requests acknowledgement of this letter and a written response by the City of Boardman confirming water availability and indicating whether providing the estimated amount of water needed for the Project would impact your ability to provide water. IPC intends to submit your letter as documentation for the EFSC permitting process. Formal contracting for water would occur at a later time, if the Project is approved and permitted. We appreciate your assistance in this matter. If you have questions or comments, please contact us at your convenience.

Respectfully submitted,

Keith Georgeson

Keith Georgeson Project Leader Boardman to Hemingway Project



March 13, 2012

Mr. Bob Patterson, Public Works Director City of Pendleton, Public Works Department 500 Southwest Dorion Avenue Pendleton, Oregon 97801 bob.patterson@ci.pendleton.or.us

Subject: Idaho Power's Boardman to Hemingway Transmission Line Project

Dear Mr. Patterson:

Idaho Power Company (IPC) is proposing to construct the Boardman to Hemingway Project, an approximately 300-mile transmission line from the Grassland Substation near Boardman, Oregon to the Hemingway Substation in southwest Idaho. More information is available at http://www.boardmantohemingway.com/. Construction of the transmission line would begin in approximately fall 2013 and continue to the planned in-service date in summer 2016.

The major water needs for the Project would occur during construction, and include water for foundation concrete mixing and dust control during grading and site work. In Umatilla County, Project water needs for construction are estimated at approximately 1,722,000 gallons, or approximately 574,000 gallons per year for three years.

IPC currently is seeking permits for the Project via Oregon's Department of Energy, Energy Facilities Siting Council (EFSC). Permitting requirements include providing evidence that the Project will not result in significant adverse impacts to the ability of water providers like the City of Pendleton to meet other water needs or provide water for other uses.

Based on our preliminary communications with you (in June 2011), it is our understanding that the City of Pendleton's water supplies are adequate to meet Project needs in Umatilla County (estimated above) without affecting your ability to serve other water demands and without restricting planned future growth. Also, we understand that the City of Pendleton's water rights allow use for industrial purposes such as a transmission line project.

IPC respectfully requests acknowledgement of this letter and a written response by the City of Pendleton confirming water availability and indicating whether providing the estimated amount of water needed for the Project would impact your ability to provide water. IPC intends to submit your letter as documentation for the EFSC permitting process. Formal contracting for water would occur at a later time, if the Project is approved and permitted.

We appreciate your assistance in this matter. If you have questions or comments, please contact us at your convenience.

Respectfully submitted,

Keith Georgeson

Keith Georgeson Project Leader Boardman to Hemingway Project



March 13, 2012

Mr. Lee Mannor, Water Superintendent City of La Grande, Public Works Department 800 X Avenue La Grande, OR 97850 publicworks@cityoflagrande.org

Subject: Idaho Power's Boardman to Hemingway Transmission Line Project

Dear Mr. Mannor:

Idaho Power Company (IPC) is proposing to construct the Boardman to Hemingway Project, an approximately 300-mile transmission line from the Grassland Substation near Boardman, Oregon to the Hemingway Substation in southwest Idaho. More information is available at http://www.boardmantohemingway.com/. Construction of the transmission line would begin in approximately fall 2013 and continue to the planned in-service date in summer 2016.

The major water needs for the Project would occur during construction, and include water for foundation concrete mixing and dust control during grading and site work. In Union County, Project water needs for construction are estimated at approximately 1,397,000 gallons, or approximately 466,000 gallons per year for three years.

IPC currently is seeking permits for the Project via Oregon's Department of Energy, Energy Facilities Siting Council (EFSC). Permitting requirements include providing evidence that the Project will not result in significant adverse impacts to the ability of water providers like the City of La Grande to meet other water needs or provide water for other uses.

Based on our preliminary communications with you (in June 2011), it is our understanding that the City of La Grande's water supplies are adequate to meet Project needs in Union County (estimated above) without affecting your ability to serve other water demands and without restricting planned future growth. Also, we understand that the City of La Grande's water rights allow use for industrial purposes such as a transmission line project.

IPC respectfully requests acknowledgement of this letter and a written response by the City of La Grande confirming water availability and indicating whether providing the estimated amount of water needed for the Project would impact your ability to provide water. IPC intends to submit your letter as documentation for the EFSC permitting process. Formal contracting for water would occur at a later time, if the Project is approved and permitted.

We appreciate your assistance in this matter. If you have questions or comments, please contact us at your convenience.

Respectfully submitted,

Keith Georgeson

Keith Georgeson Project Leader Boardman to Hemingway Project



March 13, 2012

Ms. Michelle Owen, Public Works Director Baker City, Public Works Department 1655 First Street P.O. Box 650 Baker City, OR 97814 mowen@bakercity.com

Subject: Idaho Power's Boardman to Hemingway Transmission Line Project

Dear Ms. Owen:

Idaho Power Company (IPC) is proposing to construct the Boardman to Hemingway Project, an approximately 300-mile transmission line from the Grassland Substation near Boardman, Oregon to the Hemingway Substation in southwest Idaho. More information is available at http://www.boardmantohemingway.com/. Construction of the transmission line would begin in approximately fall 2013 and continue to the planned in-service date in summer 2016.

The major water needs for the Project would occur during construction, and include water for foundation concrete mixing and dust control during grading and site work. In Baker County, Project water needs for construction are estimated at approximately 2,583,000 gallons, or approximately 861,000 gallons per year for three years.

IPC currently is seeking permits for the Project via Oregon's Department of Energy, Energy Facilities Siting Council (EFSC). Permitting requirements include providing evidence that the Project will not result in significant adverse impacts to the ability of water providers like Baker City to meet other water needs or provide water for other uses.

Based on our preliminary communications with you (in June 2011), it is our understanding that Baker City's water supplies are adequate to meet Project needs in Baker County (estimated above) without affecting your ability to serve other water demands and without restricting planned future growth. Also, we understand that the Baker City's water rights allow use for industrial purposes such as a transmission line project.

IPC respectfully requests acknowledgement of this letter and a written response by Baker City confirming water availability and indicating whether providing the estimated amount of water needed for the Project would impact your ability to provide water. IPC intends to submit your letter as documentation for the EFSC permitting process. Formal contracting for water would occur at a later time, if the Project is approved and permitted.

We appreciate your assistance in this matter. If you have questions or comments, please contact us at your convenience.

Respectfully submitted,

Keith Georgeson

Keith Georgeson Project Leader Boardman to Hemingway Project



March 13, 2012

Mr. Chuck Mickelson, Public Works Director City of Ontario, Public Works Department 444 SW 4th Street Ontario, OR 97914 chuck.mickelson@ontariooregon.org

Subject: Idaho Power's Boardman to Hemingway Transmission Line Project

Dear Mr. Mickelson:

Idaho Power Company (IPC) is proposing to construct the Boardman to Hemingway Project, an approximately 300-mile transmission line from the Grassland Substation near Boardman, Oregon to the Hemingway Substation in southwest Idaho. More information is available at http://www.boardmantohemingway.com/. Construction of the transmission line would begin in approximately fall 2013 and continue to the planned in-service date in summer 2016.

The major water needs for the Project would occur during construction, and include water for foundation concrete mixing and dust control during grading and site work. In Malheur County, Project water needs for construction are estimated at approximately 2,655,000 gallons, or approximately 885,000 gallons per year for three years.

IPC currently is seeking permits for the Project via Oregon's Department of Energy, Energy Facilities Siting Council (EFSC). Permitting requirements include providing evidence that the Project will not result in significant adverse impacts to the ability of water providers like the City of Ontario to meet other water needs or provide water for other uses.

Based on our preliminary communications with you (in June 2011), it is our understanding that the City of Ontario's water supplies are adequate to meet Project needs in Malheur County (estimated above) without affecting your ability to serve other water demands and without restricting planned future growth. Also, we understand that the City of Ontario's water rights allow use for industrial purposes such as a transmission line project.

IPC respectfully requests acknowledgement of this letter and a written response by the City of Ontario confirming water availability and indicating whether providing the estimated amount of water needed for the Project would impact your ability to provide water. IPC intends to submit your letter as documentation for the EFSC permitting process. Formal contracting for water would occur at a later time, if the Project is approved and permitted.

We appreciate your assistance in this matter. If you have questions or comments, please contact us at your convenience.

Respectfully submitted,

Keith Georgeson

Keith Georgeson Project Leader Boardman to Hemingway Project



March 13, 2012

Mr. Daniel Badger, Staff Engineer City of Nampa, Waterworks Division 24 1st St S, Nampa, ID 83651 badgerd@cityofnampa.us

Subject: Idaho Power's Boardman to Hemingway Transmission Line Project

Dear Mr. Badger:

Idaho Power Company (IPC) is proposing to construct the Boardman to Hemingway Project, an approximately 300-mile transmission line from the Grassland Substation near Boardman, Oregon to the Hemingway Substation in southwest Idaho. More information is available at http://www.boardmantohemingway.com/. Construction of the transmission line would begin in approximately fall 2013 and continue to the planned in-service date in summer 2016.

The major water needs for the Project would occur during construction, and include water for foundation concrete mixing and dust control during grading and site work. In Owyhee County, Project water needs for construction are estimated at approximately 898,000 gallons, or approximately 299,000 gallons per year for three years.

IPC currently is seeking permits for the Project via Oregon's Department of Energy, Energy Facilities Siting Council (EFSC). Permitting requirements include providing evidence that the Project will not result in significant adverse impacts to the ability of water providers like the City of Nampa to meet other water needs or provide water for other uses.

Based on our preliminary communications with you (in June 2011), it is our understanding that the City of Nampa's water supplies are adequate to meet Project needs in Owyhee County (estimated above) without affecting your ability to serve other water demands and without restricting planned future growth. Also, we understand that the City of Nampa's water rights allow use for industrial purposes such as a transmission line project.

IPC respectfully requests acknowledgement of this letter and a written response by the City of Nampa confirming water availability and indicating whether providing the estimated amount of water needed for the Project would impact your ability to provide water. IPC intends to submit your letter as documentation for the EFSC permitting process. Formal contracting for water would occur at a later time, if the Project is approved and permitted.

We appreciate your assistance in this matter. If you have questions or comments, please contact us at your convenience.

Respectfully submitted,

Keith Georgeson

Keith Georgeson Project Leader Boardman to Hemingway Project

Letters from Water Providers



City of Baker City, Oregon

P.O. Box 650 Baker City, OR 97814-0650 541-523-6541 Voice/TDD 541-524-2049 FAX

May 21, 2012

Idaho Power Company Keith Georgeson PO Box 70 Boise, ID 83707

Re: Boardman to Hemmingway Transmission Line Project

Mr. Georgeson:

This letter is in response to your letter to me dated March 13, 2012. You have asked that I verify water availability for the Transmission Line Project. Your letter states the project would require 861,000 gallons each year for three years during the construction. We delivered over 681MG of water to the community in 2011 and the requested amount from Idaho Power amounts to only 0.13% of our annual usage.

The City of Baker City would be able to supply this amount of water for the project and still maintain water distribution services to the City. It is not anticipated that this request from Idaho Power Company would restrict future growth in Baker City.

If you need further information, please feel free to contact me.

Sincerely,

Michelle Owen Director of Public Works



<u>City of Boardman</u>

200 City Center Circle P.O. Box 229 Boardman, OR 97818 Phone (541) 481-9252 Fax (541) 481-3244 TTY Relay 711 www.cityofboardman.com

June 1, 2012

Mr. Keith Georgeston, Project Leader Boardman to Hemingway Project 1221 W. Idaho St. (83702) P.O. Box 70 Boise, ID. 83707

Subject: Idaho Power's Boardman to Hemingway Transmission Line Project

Dear Mr. Georgeston:

This letter is to confirm that the City of Boardman's water supply can meet your project demands of the estimated amount of 662,000 gallons per year for three years at this time.

Please understand that if the City of Boardman's water demands change for any reason in that three year period the City of Boardman's demands are meet first and foremost.

Respectfully

David P Winters Public Works Director City of Boardman 200 City Center Circle P.O. Box 229 Boardman, OR 97818

English, Aaron

From: Sent: To: Subject: Spillers, Paul Wednesday, October 03, 2012 4:35 PM English, Aaron FW: B2H water supply letter.

From: Norm Paullus, City of La Grande Public Works Director [mailto:npaullus@cityoflagrande.org]
Sent: Friday, May 18, 2012 2:08 PM
To: Spillers, Paul
Cc: 'Lee Mannor'; Public Works Dept. - Josie
Subject: RE: B2H water supply letter.

Good morning,

I visited with Lee and he did respond with a phone call and felt that was adequate. As for the accessing of our water, we always reserve the right to cut water off for reasons that we feel will jeopardize our supply or may be unauthorized use. If the contractor should try getting it from a fire hydrant or a more convenient location for him that we have not approved they will prosecuted and future use may be denied. We can supply your water needs, but if you want to receive the water all at once or in extremely large volumes at one time we would want to evaluate that demand as it relates to our local demand. All water would need to be picked up at the Public Works Department and documented for billing purposes. The contractor would need to set up an account for billing purposes. Access to our water source would be made available Monday through Friday from 8:00 a.m. to 4:30 p.m. If you have any questions or concerns please feel free to contact myself or Lee.

Thank You, Norman J. Paullus, Jr. City of La Grande Public Works Director 800 'X' Avenue La Grande, Oregon 97850 (541) 962-1325

From: Spillers, Paul [mailto:Paul.Spillers@tetratech.com]
Sent: Thursday, May 17, 2012 9:26 AM
To: publicworks@cityoflagrande.org
Subject: B2H water supply letter.

Billie Jo,

In March Idaho Power sent a letter to Lee Mannor (see attached file) about estimated water needs for the construction of the planned Boardman to Hemingway transmission line project. To satisfy Oregon Department of Energy permitting

requirements, could you please return a brief letter to Idaho Power, verifying an adequate water supply or stating the effects of Idaho Power's use of the water? On Idaho Power's behalf, I thank you for your attention to this issue. Paul

Paul Spillers, P.G. | Project Manager Phone: 208.389-1030 | Fax: 208-389-1183 | Cell 208.871.2191 paul.spillers@tetratech.com

Tetra Tech | Complex World, CLEAR SOLUTIONS™ 3380 Americana Terrace, Suite 201 | Boise, ID 83706 | <u>www.tetratech.com</u>

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City of Ontario Office of the City Manager 444 SW 4th Street Ontario, OR 97914 Voice (541) 881-3223 Fax (541) 889-7121 chuck.mickelson@ontariooregon.org

April 13, 2012

Keith Georgeson P.O. Box 70 Boise, ID 83707

SUBJECT: Idaho Power's Boardman to Hemingway Transmission Line Project

Dear Mr. Georgeson:

This letter is in response to your inquiry of March 13, 2012 regarding water for the above project. You requested confirmation that the City of Ontario could supply nearly 2.7 million gallons of water over a three year period during the construction of the transmission line.

The City of Ontario will be able to provide the necessary water without affecting our customers.

If you have any further questions, feel free to contact the City of Ontario.

Sincerely, BN

Charles R. Mickelson P.E. City Manager Pro-Tem

Cc: Bob Walker, Public Works Director Delhie Block, Water and Wastewater Superintendent John Bishop, Operations Manager

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CITY OF PENDLETON



Public Works Department 500 S.W. Dorion Avenue Pendleton, Oregon 97801-2090 Telephone (541) 966-0202 FAX (541) 966-0251 TDD Phone (541) 966-0230

Keith Georgeson, Project Leader Idaho Power 1221 West Idaho Street PO Box 70 Boise, ID 83707

RE: Idaho Power's Boardman to Hemingway Transmission Line Project

Dear Mr. Georgeson:

Please accept this letter as confirmation that the City of Pendleton's water supplies are adequate to meet your Project needs in Umatilla County without impacting our ability to serve other water demands and without restricting planned future growth. The City of Pendleton's water rights do allow use for industrial purposes such as the abovereferenced transmission line project.

If you require any other information, please contact me at 541 966-0202 or bob.patterson@ci.pendleton.or.us.

Sincerely,

Bob Patterson, PE Public Works Director

BP/jh





.... Home of the World Famous Pendleton Round-Up