#### **PACIFICORP**

February 24, 2004

The purpose of this letter is to provide you with the new application template that is to be used when submitting an application for attachment OR modification of an existing attachment to a PacifiCorp owned pole. This application form supercedes the exhibit in your contract regarding applications for PacifiCorp owned poles. More commonly it is Attachment F; however it may be contained in another exhibit.

We are requesting you fill out a Pole Attachment Application and Project Spreadsheet (10 poles or more) for all poles submitted. The shaded fields in this application are what we consider the minimum information we will accept, however additional information may be required if loading questions arise. If pole measurements are incorrect, make ready assessments are not included, or if proposed make ready causes the applicant or others to be in violation, the application may be delayed until the correct information is received.

Enclosed you will find the blank Attachment Application Form. To receive a copy of the instructions or an electronic copy of the application, e-mail the region coordinator for your area and they will provide a copy to you.

NW Region (Northern Oregon and Washington) joyce.russell@pacificorp.com
SW Region (Southern Oregon Northern California) norma.fanning@pacificorp.com
NE Region (Wyoming, Idaho and Northern Utah) janet.johnson@pacificorp.com
SE Region (Southern Utah Salt Lake City South) Rosalind.holstrom@pacificorp.com

Future NJUNS applications can refer to these documents on one NJUNS ticket without the need to fill out the information for every pole in NJUNS. For questions relating to NJUNS you may contact Norma Fanning or Joyce Russell.

This change will take effect immediately. This application form is available in an electronic format including spreadsheets for large projects. Please contact your Administrative Service Coordinator and they will forward it to you.

If you have any questions please feel free to contact me at 503-813-7040 or you can contact you Area Coordinator.

Sincerely,

Laura Raypush
Supervisor, Contract & Admin. Svcs.
Phone 503-813-7040
Fax 503-813-6005
Laura.raypush@pacificorp.com

Enclosed attachment: application 2004 Cc: Contract File, Service Coordinators

NJUNS/Foreign App. # Step #	Comp	any	<u>Date</u> 	
Contact Person		Phone #		
Pole/Span/Attachment         Owner Map String		<del></del>	Owner Pole #  FS/TS Pole #  Zip Code  d Attachment Height  chment Pole Bearing	Ft  De
Attachment Offset (arms, crossarms, or swinging corners or m		<del>-</del>	Y Ft Z	Fı
- Attachment Point Method Pole Attached - Type Messenger Wire SS Wire/Cable  Lashed Cable Lashed Fiber	d Messenger Al	ic Cable Dov	Remove (no detail needed for removal) ass/Wood Arm Other wn Guy & Anchor Span Guy	
New Cable Name  Bundle Name  Existing Attachments on Pole  Lowest Power Secondary  Street Light Mast  Street Light Conductor  CATV  Height  Height	ft∈ Fil ft∈ Ot	Diameter Diameter  attachment to grouplephone ber ther owest Comm. Mi	Height ft & Height ft &	in in
Guy Information (You must supply your own anchor unless yo  Type and Material  Atch Hgt Ft Lead Length Ft  Other Communication Attachment Information	ou have made separate applica  Bearing  Attachment Heigh	Deg PreLoad	orp's anchor and have received prior approval.)  Size  Lbs AncLoad  Ft Attachment Bearing	Lb
Power Supply Equip/Jnctn Box Telco Splice TV Amp	Size (S, M, L) Other	PA/ BA Comm Riser	F.O. Storage & Length PA/ BA Comm Riser Size	FI jin
Power Utility Attachment Type  Primary  Power Attachment Information  Street Light  Control Eqp.		Seconda	ary Qly Service ary Riser Attach Bearing	Qiy D

Land Linear	<u> </u>				
ower Utility Attachment Type	Primary Qty	Neutral	Secondary	Qty Service	Qty
ower Attachment Information	Transformer Prin	nary Riser	Secondary Riser	Attach Bearing	Deg
Street Light	Control Eqp. Ow	ner Guy/Anchor	Other		
mments and Make Ready Work ne	eded to accommodate you	ir attachment in con	npliance with safety	and construction standard	ls.
Applicant Signature		<u>Date</u>			
				PacifiCorp	Use Only
Not Approved - Additional Informa	ation or Make Ready Required	Date			
Application Approved	and the second s	Date		Emp. ID	<del> </del>
т приоской гариотов					

PACIFICORP JOINT USE APPLICATION FO	R SERVICE DROP ATTACHMENT AND/OR MODIFICATION
	Company <u>Date</u>
Contact Person	Phone #
Pole / Location Owner Map String	Owner Pole #
Information Other Utility Pole #	FS/TS Pole #
GPS Coordinates Lat. +	Long
Address	
City	State Zip Code
Service Drop Attachment Action New Attach	Modify Attachment Remove (no detail needed for removal)
Attachment Point Method Pole Attached Mess	enger Attached Glass/Wood Arm Other
Attachment Detail  Attachment Height Svc Drop Length  Name of Service Drop Conductor / Wire / Cable	Ft *Service Drop Bearing Deg
** Service Drop Sag or Tension Sag	Ft Or Tension Lbs
<ul> <li>(Magnetic North) Assumed to be worst case bearing</li> </ul>	to give maximum moment on the pole.
** Assumed default sag or tension for 100 ft. service d	op with a 12 foot attachment height
on customer's facilities with a 15.5 foot hot clearanc	e 75 feet from pole.
Sketch and Comments	
Applicant Cinneture	Date
Applicant Signature	
Not Approved - Additional Information or Make Ready Required	PacifiCorp Use Only  Date
	Date Emp. ID
Application Approved	Dale Emp. ID

Field	Req'd	Description
Application Data		
NJUNS / Foreign App. #	Υ	PA NJUNS ticket serial number. Foreign utility application # if not using NJUNS.
Step #	Υ	Step row number from 1 (one) to 10 (ten) found on the PA NJUNS Ticket that the attachment's load data is related to. Number series of poles starting from 1 (one) when not using NJUNS.
Company	Υ	Applying company name.
Date	Υ	Date on NJUNS ticket or date of application.
Pole/Span/Attachment Owner Map String Pole Number	Y	PacifiCorp's map string identified on the pole tag. Usually the upper number on pole tag 6 to 10 characters long. Indicates Meridian, quadrant, township, range, and an optional alpha/numeric indicator.  PacifiCorp's pole number identified on the pole tag. Usually the lower number
. • • • • • • • • • • • • • • • • • • •	Υ	on the pole tag 6 characters long. Identifies section, section grid
Other Utility Pole #		coordinates, and PacifiCorp's internal sequence number.  Other joint occupant's pole number found on the pole, or applicant's pole number.
BS Bearing		Backspan bearing is the reference bearing for the structure and is set at 180 deg. The back span bearing is normally in the direction of conductor/cable messenger source. The span direction of a one span dead-end as referenced from the end pole
BS Length		Back span length in feet.
FS/TS Bearing	Y	Front Span or Tap Span Bearing is the bearing angle of the conductor, cable going away from the pole to the next pole or customer structure using the back span bearing as reference direction. Service drops have only front span bearings.
FS/TS Length	Υ	Front Span or Tap Span feet in length.
Attachment Height	Y	The height of the attachment point on the pole measured from ground line to the top attachment mounting hardware.
Att Pole Bearing		Attachment pole bearing is the bearing of the attachment hardware point on the pole as referenced from the back span.
Attachment Offsets		Offsets are distances in tenths of feet from the center of the pole attachment point of the cable, conductor, or messenger is located. Normally is used for attachments connected to standoff brackets, cross-arms, or swinging corners or mid span tap points.  X off set is the vertical distance (height) of an attachment on pole.  Y off set is the horizontal distance of an attachment from the pole.  Z off set is distance from pole center to the tap point or equipment end closest to the pole on the messenger or self support cable (attachment points located on the back span are in a minnus (-) Z off set direction.
Communication Attachmen	t Action	Required, choose one.
New Attach		You are placing a new attachment on the pole.
Overlash		You are overlashing your existing attachment.  You are removing your attachment.
Remove		Tou are removing your attachment.
Attachment Point Method Pole Attached		Required, choose one. Support will be provided by attaching a new messenger or new cable directly to pole.
Messenger Attached		Support will be provided by an existing messenger or strand.

#### PACIFICORP JOINT OCCUPANT LOAD DATA INFORMATION

Bracket / Xarm Attached
Other Attachment Method

Support will be provided by utilizing a glass arm or wooden crossarm. List other method of attachment used.

Communication Attachment Type Messenger Wire/Span Guy

Required, choose as many as apply to your application.

Support wire used to support lashed cable or cables, also used as a span

guy to support pole load imbalance.

SS Wire or Cable

Self supporting wire or cable not requiring a messenger for span support.

SS FO Cable

Self supporting fiber optic cable not requiring a messenger for span support. Wire or cable attached to a pole and to an anchor used to support pole

Down Guy Service Drop moment imbalance.
Single self supporting cable or wire that is the last span to a customer structure; may be attached to the pole, messenger close to the pole or as a

Lashed Cable or Lashed Fiber

mid span drop from a messenger wire or self supporting cable. Single or multiple wire/cable attached to a messenger by use of lashing wire

or tie wraps to an existing cable or wire bundle.

#### PACIFICORP JOINT OCCUPANT LOAD DATA INFORMATION

New & Lashed Cables Loading  Bundle Data  New Cable Name  Bundle Name  Diameter  Lbs/ft	Y Y Y Y	Please provide a sag chart based on the bundle charateristics you provide. Industry standard or company standard name of the messenger, self supporting cable, or service drop conductor.  Reference name of the total bundle including existing messenger and cable, plus the new cable or conductor.  Diameter of the messenger, self supporting cable, and service drop conductor. (See NESC Rule 251)  Pounds per foot of the messenger, self supporting cable, or service drop conductor.
Existing Attachments on Pole		Measurements are required for all atachments listed below.
Lowest Power Secondary	Y	Distance from lowest power secondary to the ground or street surface in feet and inches. Lowest power secondary may include but is not limited to a drip loop, service service to customer, top of a power riser, etc.
Street Light Mast	Υ	Distance from lowest point on street light hardware to the ground or street surface in feet and inches.
Street Light Conductor	Υ	Distance from lowest point of conductor entering street light.
CATV	Υ	Distance from cable tv attachment on pole to the ground or street surface in feet and inches.
Telephone	Υ	Distance from telephone attachment on pole to the ground or street surface in feet and inches.
Fiber	Υ	Distance from fiber attachment on pole to the ground or street surface in feet and inches.
Other 1 and Other 2	Υ	Distance from other related attachment on pole to the ground or street surface in feet and inches.
Lowest Comm. Midspan	Υ	Distance from the lowest communcation midspan to the ground or street surface in feet and inches.
Guy Information		You are required to provide your own anchor and place a suitably rated strain insulator in your down guy.
Type and Material	Υ	List type of guy (DE - dead end; BISEC - bisector guy for angles; SDWLK - side walk guy) and guy material (EHS; AWLD; OTHER).
Size	Υ	List size for guy size in fractional inches. (1/4; 5/16; 3/8; etc.).
Attach Height	Υ	Guy attachment height.
Lead Length	Υ	Guy lead length from center of pole to anchor ground line.
Bearing		Guy bearing with the back span for the pole as the reference point.
PreLoad		Tension of the guy before installation of messenger, self supporting cable, or conductor.
AncLoad	Y	Maximum anchor loading for your proposed guy.
Other Communication Attachm	ont T	vnos

#### **Other Communication Attachment Types**

A specialized equipment box supplying power to TV line amp equipment.

Maximum size for pole mounted power supply is 26"h x26"w x 20"d

Equipment Box

Size

Size

S--less than 8"h x 8"w x 4"d;

M--between 8"h x 8"w x 4"d and 12"h x12"w x 6"d;

L--larger than 12"h x12"w x 6"d but must be less than 26"h x26"w x 20"d

Equipment box is Pole Attached or Bracket Attached

Comm Riser

Size

Diameter of conduit riser.

#### PACIFICORP JOINT OCCUPANT LOAD DATA INFORMATION

PA / BA FO Storage & Length Telco Splice TV Amp

Comments and Make Ready Work

Conduit riser is Pole Attached or Bracket Attached Indicates fiber optic storage on strand and length of stored cable in feet. Telco splice enclosure usually located on messenger. TV amplifier box usually located on messenger.

List comments and all make ready work required to accommodate your attachment in compliance with all applicable safety and construction standards. Make ready should indicate who needs to take corrective action, and what the corrective action should be taken to resolve existing violations, or to accommodate your proposed attachment.

Describe all Make Ready Required to complete your attachment in compliance with NESC, PacifiCorp, and Local standards Page 1 of 2 Span to Next Pole (Ft.) State\_\_\_ Midspan Pole Reference # Lowest Comm. Midspan Existing Attachments
List distance from attachment to ground or street surface (Ft. & In.) Other Tele-phone Cable TV Street Light Street Light Mast Conductor Lowest Power Secondary lbs/ Total Bundle Diam. lbs/ Ft. New Cable Information Diam. Phone Date Joint Use Project Spreadsheet Attachment Attachment New Cable Point Method Type Name Attachment Action Height (Ft. & In.) NJUNS/Foreign App. # Company Company Contact Person Pole Address (Location) Pole Number and Location Information PACIFICORP PP&L Map PP&L Pole String No. 9 22 5 4 15 \* 6 7

**<b>≫** PACIFICORP

Joint Use Project Spreadsheet

Page 1 of 4 Street Light Street Light
Mast Conductor Lowest Power Secondary lbs/ Ft. **Total Bundle** Diam. lbs/ Ft. New Cable Information New Cable Name Diam. Phone Date Attachment Type Proposed Attachment Attachment Point Method Attachment Action Height (Ft. & In.) NJUNS/Foreign App. #
Company
Contact Person Pole Address (Location) Pole Number and Location Information PP&L Pole No. PP&L Map String 15 16 18 19 20 21 10 11 12 17 13 14 6 N က œ #

Page 2 of 4

City

		List distance from :	Cable TV		<u> </u>							
		List dis	Street Light Conductor									
			Street Light S									
			Lowest Power Secondary	,								
		undle	lbs/ Ft.									
		Total Bundle	Diam.									
		_	lbs/ Ft.									
		formation	Diam.									
Date	Phone	New Cable Information	New Cable Name									
			Attachment Type									
		Pronosed Attachment	Attachment Point Method							:		
		- Bro	Attachment Action									
			Height (Ft. & In.)									
NJUNS/Foreign App. # Company	Contact Person	Dolo Numbor and Location Information	Pole Address (Location)									
Z		- backer	PP&L Pote No									
		- Notes	PP&L Map									
			*	8	7	83	4 9	67 %	3 8	788	73	8

Joint Use Project Spreadsheet

M PACIFICORP

		Make Ready	Describe all Make Ready Required to complete your attachment in compliance with NESC, PacifiCorp, and Local standards					
City	State		Span to Next Pole (Ft.)					
			Midspan Pole Reference #			:		
		& In.)	Lowest Comm. Midspan					
		Existing Attachments attachment to ground of street surface (Ft. & In.)	Other					
		Existing Attachments chment to ground of str	Fiber					
		Existing A	Tele-					



#### JOINT USE APPLICATION FOR ATTACHMENT AND/OR MODIFICATION

NJUNS/Foreign App. #	Step#	<u>Company</u>	<u>Date</u>
XYZ 0204 Node 3	001 XYZ C	Company	February 10, 2004
Contact Person Joe Cable G	auy	Phone #	(999) 111-4444
Pole/Span/Attachment Owner	Map String	05233079.0	Owner Pole # 191402
<u>Information</u> Othe	er Utility Pole #		FS/TS Pole # 191404
GPS Coordinates Lat. +		Long -	
Address 123 W Columbus S	t, Townsville		Zip Code 91999
FS/TS Bearing 0 Deg	FS/TS Length	n 203 Ft Propos	ed Attachment Height 21' 3" Ft
BS Bearing 1 8 0 Deg	BS Length	197 Ft Atta	achment Pole BearingDeg
Attachment Offset (arms, crossarms,	or swinging corners or midspan t	tap) X F	t Y Ft Z Ft
Communication Attachment - Acti	on New Attacl	h X Overlash	Remove (no detail needed for removal)
- Attachment Point Method	Pole Attached	X Messenger Attached G	Slass/Wood Arm Other
- Type Messenger Wire	SS Wire/Cable	SS Fiber Optic Cable D	own Guy & Anchor Span Guy
Lashed Cable	X Lashed Fiber	Service Drop	Other
New & Lashed Cables Loading ar	nd Bundle Data		
New Cable Name 24 Count Fibe		Diameter	0.5 in Weight/ft 0.09 Lbs
Bundle Name Strand, Existin	ng .625, 24 Count Fibe	er Diameter	1.5 in Weight/ft 0.40 Lbs
Existing Attachments on Pole	List distand	ce from existing attachment to gro	ound or street surface.
Lowest Power Secondary	Height 25' ft & in	Telephone	Height 21'3" ft & in
Street Light Mast	Height 23' 10 ft & in	Fiber	Height ft & in
Street Light Conductor	Height 23'6" ft & in	Other	Height ft & in
CATV	Height 22' 3" ft & in	Lowest Comm. N	Aidspan неight 18′9" ft & in
Guy Information (You must supply you	ur own anchor unless you have n	nade separate application to attach to Pacifi	iCorp's anchor and have received prior approval.)
Guy Information (You must supply you  Type and Material	ur own anchor unless you have n	nade separate application to atlach to Pacifi	Corp's anchor and have received prior approval.)
Type and Material		nade separate application to attach to Pacifi aring Deg PreLoad	
Type and Material	Length Ft Bea		Size
Type and Material  Atch Hgt Ft Lead  Other Communication Attachmen	Length Ft Bea	paring Deg PreLoad	Size Lbs AncLoad Lbs
Type and Material  Atch Hgt Ft Lead  Other Communication Attachmen  Power Supply Equation	Length Ft Bea	PreLoad  Attachment Height  Size (S, M, L)  PA/ BA	Size Lbs AncLoad Lbs  Ft Attachment Bearing Deg
Type and Material  Atch Hgt Ft Lead  Other Communication Attachmen  Power Supply Equation	Length Ft Beaution	PreLoad  Attachment Height  Size (S, M, L)  PA/ BA	Size  Lbs AncLoad  Ft Attachment Bearing  F.O. Storage & Length  Ft BA PA/BA Comm Riser Size 2" in
Type and Material  Atch Hgt Ft Lead  Other Communication Attachmer  Power Supply Equation  Telco Splice Tv	Length Ft Beaut Information quip/Jnctn Box	Attachment Height Size (S, M, L) Other  Neutral  Peg PreLoad PA/ BA  Comm Rise	Size  Lbs AncLoad  Ft Attachment Bearing  F.O. Storage & Length  Ft BA PA/BA Comm Riser Size 2" in
Type and Material  Atch Hgt Ft Lead  Other Communication Attachmen  Power Supply Equation  Telco Splice Tv  Power Utility Attachment Type	Length Ft Beaut Information quip/Jnctn Box	Attachment Height Size (S, M, L) Other  Neutral  Peg PreLoad PA/ BA Comm Rise	Size    Lbs   AncLoad   Lbs     Ft
Type and Material  Atch Hgt Ft Lead  Other Communication Attachmen  Power Supply Eq  Telco Splice Tv  Power Utility Attachment Type  Power Attachment Information	Length Ft Beauting Internation    Autinformation   Control Eqp.   Control Eqp.	Deg	Size  Lbs AncLoad  Ft Attachment Bearing  F.O. Storage & Length  Ft BA PA/BA Comm Riser Size 2" in dary  Qty  Service  Qty  dary Riser  Attach Bearing  Deg  Deg
Type and Material  Atch Hgt Ft Lead  Other Communication Attachmen  Power Supply Eq  Telco Splice Tv  Power Utility Attachment Type  Power Attachment Information  Street Light  Comments and Make Ready Work not prior to overlash, XYZ will arrange in the second s	Length Ft Beauting Interpretation    Autinformation   Primary Qty	Attachment Height  Size (S, M, L) PA/ BA  Other X Comm Rise  Neutral Secon  Primary Riser Secon  Owner Guy/Anchor Other  your attachment in compliance w	Size  Lbs AncLoad  Ft Attachment Bearing  F.O. Storage & Length  Ft BA PA/BA Comm Riser Size 2" in dary  Qty  Service  Qty  dary Riser  Attach Bearing  Deg  Deg
Type and Material  Atch Hgt Ft Lead  Other Communication Attachmen Power Supply Equation Telco Splice Tv  Power Utility Attachment Type Power Attachment Information Street Light  Comments and Make Ready Work in	Length Ft Beauting Interpretation    Autinformation   Primary Qty	Attachment Height  Size (S, M, L) PA/ BA  Other X Comm Rise  Neutral Secon  Primary Riser Secon  Owner Guy/Anchor Other  your attachment in compliance w	Size  Lbs AncLoad  Ft Attachment Bearing  F.O. Storage & Length  Ft BA PA/ BA Comm Riser Size 2" in  dary  Oty  dary Riser Attach Bearing  Deg  Oty  dary Riser Attach Bearing  Deg  Deg
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Type and Material  Atch Hgt Ft Lead  Other Communication Attachmen  Power Supply Eq  Telco Splice Tv  Power Utility Attachment Type  Power Attachment Information  Street Light  Comments and Make Ready Work not prior to overlash, XYZ will arrange in the second s	Length Ft Beauting Interpretation    Autinformation   Primary Qty	Attachment Height  Size (S, M, L) PA/ BA  Other X Comm Rise  Neutral Secon  Primary Riser Secon  Owner Guy/Anchor Other  your attachment in compliance w	Size  Lbs AncLoad  Ft Attachment Bearing  F.O. Storage & Length  Ft BA PA/ BA Comm Riser Size 2" in  dary  Oty  Service  Oty  dary Riser Attach Bearing  Deg  Deg  Lths
Type and Material  Atch Hgt Ft Lead  Other Communication Attachmen  Power Supply Eq  Telco Splice Tv  Power Utility Attachment Type  Power Attachment Information  Street Light  Comments and Make Ready Work not prior to overlash, XYZ will arrange in the second s	Length Ft Beauting Interpretation    Autinformation   Primary Qty	Attachment Height  Size (S, M, L) PA/ BA  Other X Comm Rise  Neutral Secon  Primary Riser Secon  Owner Guy/Anchor Other  your attachment in compliance w	Size  Lbs AncLoad  Ft Attachment Bearing  F.O. Storage & Length  Ft BA PA/ BA Comm Riser Size 2" in  dary  Oty  Service  Oty  dary Riser Attach Bearing  Deg  Deg  Lths
Type and Material  Atch Hgt Ft Lead  Other Communication Attachmen  Power Supply Eq  Telco Splice Tv  Power Utility Attachment Type  Power Attachment Information  Street Light  Comments and Make Ready Work not prior to overlash, XYZ will arrange in the second s	Length Ft Beauting Interpretation    Autinformation   Primary Qty	Attachment Height  Size (S, M, L) PA/ BA  Other X Comm Rise  Neutral Secon  Primary Riser Secon  Owner Guy/Anchor Other  your attachment in compliance w	Size  Lbs AncLoad  Ft Attachment Bearing  F.O. Storage & Length  Ft BA PA/ BA Comm Riser Size 2" in  dary  Oty  Service  Oty  dary Riser Attach Bearing  Deg  Deg  Lths
Type and Material  Atch Hgt Ft Lead  Other Communication Attachmen  Power Supply Eq  Telco Splice TV  Power Utility Attachment Type  Power Attachment Information  Street Light  Comments and Make Ready Work not overlash, XYZ will arrange secondary and 20" clearance to street.	Length Ft Beauting Interpretation    Autinformation   Primary Qty	Attachment Height Size (S, M, L) PA/ BA Other X Comm Rise Neutral Secon Primary Riser Secon Owner Guy/Anchor Other your attachment in compliance w making room for XYZ to relocate	Size  Lbs AncLoad  Ft Attachment Bearing  F.O. Storage & Length  Ft BA PA/ BA Comm Riser Size 2" in  dary  Oty  Service  Oty  dary Riser Attach Bearing  Deg  Deg  Oty  Deg
Type and Material  Atch Hgt Ft Lead  Other Communication Attachmen  Power Supply Eq  Telco Splice Tv  Power Utility Attachment Type  Power Attachment Information  Street Light  Comments and Make Ready Work not prior to overlash, XYZ will arrange in the second s	Length Ft Beauting Interpretation    Autinformation   Primary Qty	Attachment Height  Size (S, M, L) PA/ BA  Other X Comm Rise  Neutral Secon  Primary Riser Secon  Owner Guy/Anchor Other  your attachment in compliance w	Size  Lbs AncLoad  Ft Attachment Bearing  F.O. Storage & Length  Ft BA PA/ BA Comm Riser Size 2" in  dary  Oty  Service  Oty  dary Riser Attach Bearing  Deg  Deg  Oty  Deg
Type and Material  Atch Hgt Ft Lead  Other Communication Attachmen  Power Supply Eq  Telco Splice Tv  Power Utility Attachment Type  Power Attachment Information  Street Light  Comments and Make Ready Work not secondary and 20" clearance to street to stree	Length Ft Beaut Information quip/Jnctn Box / Amp Qty Transformer Qty Control Eqp. eeded to accommodate y for Telco to move down, reet light mast.	Attachment Height Size (S, M, L) PA/ BA Other X Comm Rise Neutral Secon Primary Riser Secon Owner Guy/Anchor Other your attachment in compliance w making room for XYZ to relocate	Size  Lbs AncLoad  Ft Attachment Bearing  F.O. Storage & Length  Ft BA PA/ BA Comm Riser Size 2" in  dary  Oty  Service  Oty  dary Riser Attach Bearing  Deg  Deg  Oty  Deg
Type and Material  Atch Hgt Ft Lead  Other Communication Attachmen  Power Supply Eq  Telco Splice TV  Power Utility Attachment Type  Power Attachment Information  Street Light  Comments and Make Ready Work not overlash, XYZ will arrange secondary and 20" clearance to street.	Length Ft Beaut Information quip/Jnctn Box / Amp Qty Transformer Qty Control Eqp. eeded to accommodate y for Telco to move down, reet light mast.	Attachment Height Size (S, M, L) PA/ BA Other X Comm Rise Neutral Secon Primary Riser Secon Owner Guy/Anchor Other your attachment in compliance w making room for XYZ to relocate	Size   Lbs   Lbs

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Joint Use Project Spreadsheet

City Townesville State ur (307) 577-6965 2/10/2004 Date Phone CDI Fiber Company Madison Node 17 Joe Comtech NJUNS/Foreign App. # Company Contact Person

Describe all Make Ready Required to complete your attachment in compliance with NESC, PacifiCorp, and Local standards Request that Pacific Power extend riser 12" for 40" clearance to new attachment. Prior to overlash, CDI Fiber will resag existing cable to gain require midspan clearance from the primary Neutral. CDI Fiber will arrange for Telco to move down 12" making room for Fiber clearances to secondary and street light. Reqest estimate from Pacific Power to replace pole with 5 foot taller pole. Make Ready CDI to install anchor Span to Next Pole (Ft.) 182 250 260 253 Midspan Pole Reference # 123456 171460 170461 Lowest Comm. Midspan 21' 4" 21.5 ¥ 22 73 Existing Attachments
List distance from attachment to ground or street surface (Ft. & In.) Other ž ž ž ξ ž 25' 2" Fiber ¥ ž ¥ ž Tele-phone 24. 1" 24' 5" 23.8 23, 8. ž Cable TV ž ž ¥ ž ž Street Light Street Light Mast Conductor 25'3" ş ş ž ¥ 26'3" ¥ ş ¥ ¥ Lowest Power Secondary 28' 1" 29, 9" 28. 6 ¥ 8 0.35 0.65 lbs/ Ft. 0.35 0.35 0.35 Total Bundle 0.675 0.675 0.675 Diam. 0.675 1.25 Messenger & Fiber 0.425 0.01 0.01 lbs/ Ft. 0.01 0.01 0.01 0.425 0.425 0.425 24 Pair Fiber 0.425 Diam. New Cable Info Pole Attached Lashed Cable 24 Pair Fiber New Cable Name 24 Pair Fiber Lashed Cable 24 Pair Fiber Messenger & Fiber Attachment Messenger Fiber Type TV Amp, Pole Attached Pole Attached Messenger Attachment Pole Attached Proposed Attachment Point Method Attachment Action Overlash New New New New Height (Ft. & In.) 35.0 .0 .92 25' 4" 25' 2" Pole Location / Address / Zip North side of Hwy 126 on BPA property by entrance vault South side Hwy-126, 2nd pole east of SW 35th St South side Hwy-126, 1st pole east of SW 35th St South side Hwy-126, 1st pole west of SW 35th St South side Hwy-126, south west corner of SW 35th St Pole Number and Location Information PP&L Map PP&L Pole String No. 171460 M56987 M26563 189460 B26369 01325013 01325013 # 7 2 유 Ξ 12 5 14

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# Pole Attachment Application Package February 2004



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### Introduction

This package includes all of the necessary application materials and instructions to attach to PacifiCorp facilities. Hopefully, this document addresses most of the questions that you have. However, we are always here to answer your questions. Please call the regional Administrative Coordinator listed in this document and they will forward your request to the appropriate supervisor.

Prior to applying for attachments to poles, a current Pole Attachment Agreement must be on file. The regional Administrative Coordinator will forward your agreement request to the contracts department if needed. Once an agreement is on file, your company can apply for pole attachment agreements as required.

All attachments and/or modifications of attachments require a permit as specified in the current Pole Attachment Agreement between your company and PacifiCorp. All new and modification of attachments require pre-approval from PacifiCorp prior to performing work on the facilities. The installation of service drops require appropriate notice as identified in your agreement.

Applying for attachments to poles is often a multi-stepped process. Please see page 2 for a process flow of the steps PacifiCorp must take prior to approving any attachment. Inside there is information on PacifiCorp's Smart Numbering System, an application for attachment (please make additional copies as needed), a copy of PacifiCorp's Joint Use Standards. It should be noted that all attachments to PacifiCorp poles must meet the requirements of the National Electric Safety Code (NESC) and individual State and/or federal codes that may be applicable. In addition, contact information is provided for each of the four regions we serve.

Sincerely,

PacifiCorp T&D Infrastructure Management 2003 PACIFICORP | PAGE



## **Contact Information**

NE Coordinator Janet Johnson 503-813-5774 janet.johnson@pacificorp.com NW Coordinator Joyce Russell 503-813-5131 joyce.russell@pacificorp.com

SE Coordinator Roz Holstrom 503-813-5247 roz.holstrom@pacificorp.com SW Coordinator Norma Fanning 503-813-5416 norma.fanning@pacificorp.com

All correspondence may be directed to:

T&D Infrastructure Management 830 NE Holladay Street Suitte 250 Portland, OR 97232

The T&D fax number is:

503-813-6005



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## **How to Apply**

#### **OREGON AND WASHINGTON \***

PacifiCorp sponsors and subscribes to the National Joint Use Notification System (NJUNS) for all pole notifications in Oregon and Washington. The system provides for web-based electronic notification between the Pole Owner and Pole Renter for communication on new applications for pole attachments, modifications of attachments, notification of pole transfers, and removal of attachments.

Additional information may be required in addition to the NJUNS notification. Design prints, Plan and Profiles for Transmission Poles, completed PacifiCorp applications will need to be forwarded to the appropriate Administrative Coordinator at our Portland office for distribution to the appropriate regional inspector.

NJUNS information can be found at: <a href="www.NJUNS.com">www.NJUNS.com</a> Additionally, each state also has an NJUNS user's group which meets periodically for training and discussion. The Executive Committee members listed on NJUNS can put you in contact with your local user's group.

#### CALIFORNIA, IDAHO, UTAH, and WYOMING \*

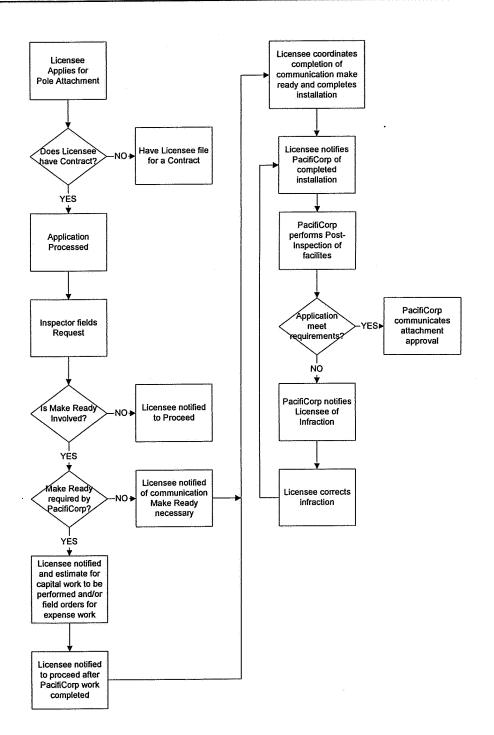
All notifications between PacifiCorp and Licensees may be communicated via fax, email, and postal services, and/or additional means as provided for in the Pole Attachment Agreement.

In addition to electronic sharing of information, additional supporting documents may be required to determine if an application can be approved. Design prints, Plan and Profiles for Transmission Poles, and completed PacifiCorp applications will need to be forwarded to the appropriate Administrative Coordinator at our Portland office for distribution to the appropriate regional inspector.

\* All applications over 15 poles require a project spreadsheet in addition to the application. The spreadsheet will be e-mailed to you at your request.



# **Application Process Flow**



# **Application for Attachment**

PACIFICORP JOINT USE A	APPLICATION FOR ATTACHMENT AND/OR MODIFICATION
	Company Date
1	1 1
Contact Person	Phone #
Pole/Span/Attachment Owner Map String	Owner Pole #
Information Other Utility Pole #	FS/TS Pole #
GPS Coordinates Lat. +	Long -
Address	Zip Code
FS/TS Bearing Deg FS/TS Length	Ft Proposed Attachment Height Ft
BS Bearing 1 8 0 Peg BS Length	Ft Attachment Pole Bearing Deg
Attachment Offset (arms, crossams, or swinging corners or midspan tap)	X Ft Y Ft Z Ft
Communication Attachment - Action New Attach	Overlash Remove (no detail needed for removal)
- Attachment Point Method Pole Attached Mess	enger Attached Glass/Wood Arm Other
- Type	ber Optic Cable Down Guy & Anchor Span Guy
Lashed Cable Lashed Fiber Servi	ce Drop Other
New & Lashed Cables Loading and Bundle Data	and the state of t
New Cable Name	Diameter in Weight/ft Lbs
Bundle Name	Diameter in Weight/ft Lbs
Existing Attachments on Pole List distance from ex	isling attachment to ground or street surface.
Lowest Power Secondary Height 16 & in	Fiber Height 16.8 in
Street Light Mast Height 18 in	Other 1 Height ft & in
CATV Height ft.& in	Other 2 Height 18 in
Telephone Height 10 & in	Lowest Comm. Midspan Height 18 in
Guy Information (You must supply your own anchor unless you have made separat	e application to attach to PacifiCorp's anchor and have received prior approval.)
Type and Material	Size
Atch Hgt Ft Lead Length Ft Bearing	Deg PreLoad Lbs AncLoad Lbs
Other Communication Attachment Information Attachme	nt Height Ft Attachment Bearing Deg
Power Supply Equip/Jnctn Box Size (S, M,	
Telco Splice TV Amp Other	Comm Riser PA/BA Comm Riser Size in
	Neutral Secondary City Service City
Power Utility Attachment Type Primary Cay  Power Attachment Information Transformer Primary Ris	
Street Light Control Eqp. Owner Guy	
Comments and Make Ready Work needed to accommodate your attact	
Comments and make ready work needed to accommodate your attact	
Applicant Signature	Date
	PacifiCorp Use Orly
Not Approved - Additional Information or Make Ready Required	Date
	Date Emp. ID
Application Approved	



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## **Application for Service Drop Only**

PACIFICORP JOINT USE APPLICATION FO	OR SERVICE DROP ATTACHMENT AND/OR MODIFICATION
NJUNS/Foreign App. # Step #	<u>Company</u> <u>Date</u>
Contact Person	Phone #
Pole / Location Owner Map String	Owner Pole #
Information Other Utility Pole #	FS/TS Pole #
GPS Coordinates Lat. + .	Long -
Address	Zip Code
Service Drop Attachment Action New Attach	Modify Attachment Remove (no detail needed for removal)
Attachment Point Method Pole Attached Mes	senger Attached Glass/Wood Arm Other
Attachment Detail	
Attachment Height Svc Drop Length	*Service Drop Bearing Deg
Name of Service Drop Conductor / Wire / Cable	FI Of Tension Lbs
** Service Drop Sag or Tension Sag	Ft Or Tension LDS
(Magnetic North )Assumed to be worst case bearing	g to give maximum moment on the pole.
** Assumed default sag or tension for 100 ft. service of	drop with a 12 foot attachment height
on customer's facilities with a 15.5 foot hot clearant	ce 75 feet from pole.
Sketch and Comments	
Sketch and Comments	de Calabrata de Cal
	المتعلقة والمتعلق وال
Applicant Signature	Date
	PacifiCorp Use Only
Not Approved - Additional Information or Make Ready Required	Date
Application Approved	Dale Emp. ID



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## **Pole Application Field Definitions**

Field	Req'd	Description
Application Data		
	Υ	PA NJUNS ticket serial number. Foreign utility application # if not using
NJUNS / Foreign App. #	'	NJUNS.
Step#		Step row number from 1 (one) to 10 (ten) found on the PA NJUNS Ticket
	Υ	that the attachment's load data is related to. Number series of poles starting
		from 1 (one) when not using NJUNS.
Company	Υ	Applying company name.
Date	Y	Date on NJUNS ticket or date of application.
Pole/Span/Attachment		
Owner Map String		PacifiCorp's map string identified on the pole tag. Usually the upper number
	Υ	on pole tag 6 to 10 characters long. Indicates Meridian, quadrant, township
		range, and an optional alpha/numeric indicator.
Pole Number		PacifiCorp's pole number identfied on the pole tag. Usually the lower numb
	Υ	on the pole tag 6 characters long. Identifies section, section grid
	-	coordinates, and PacifiCorp's internal sequence number.
Other Utility Pole #		Other joint occupant's pole number found on the pole, or applicant's pole
		number.
BS Bearing		Backspan bearing is the reference bearing for the structure and is set at 18
bo bearing		deg. The back span bearing is normally in the direction of conductor/cable
		messenger source. The span direction of a one span dead-end as
<u> </u>		referenced from the end pole
BS Length		Back span length in feet.
FS/TS Bearing		Front Span or Tap Span Bearing is the bearing angle of the conductor, cabl
	Υ	going away from the pole to the next pole or customer structure using the
	.,	back span bearing as reference direction. Service drops have only front
		span bearings.
FS/TS Length	·Y	Front Span or Tap Span feet in length.
Attachment Height	Υ	The height of the attachment point on the pole measured from ground line to
	Y	the top attachment mounting hardware.
Att Pole Bearing		Attachment pole bearing is the bearing of the attachment hardware point on
		the pole as referenced from the back span.
Attachment Offsets		Offsets are distances in tenths of feet from the center of the pole attachmen
		point of the cable, conductor, or messenger is located. Normally is used for
•		attachments connected to standoff brackets, cross-arms, or swinging
		corners or mid span tap points.
		X off set is the vertical distance (height) of an attachment on pole.
		Y off set is the horizontal distance of an attachment from the pole.
		Z off set is distance from pole center to the tap point or equipment end
		closest to the pole on the messenger or self support cable (attachment
		points located on the back span are in a minnus (-) Z off set direction.
	4 A -47 =	Required, choose one.
Communication Attachmen	I ACTION	You are placing a new attachment on the pole.
New Attach		
Overlash		You are overlashing your existing attachment.
Remove		You are removing your attachment.
Attachment Point Method		Required, choose one.
Pole Attached		Support will be provided by attaching a new messenger or new cable directly
- and Addinguisher		to pole.
Messenger Attached		Support will be provided by an existing messenger or strand.
		Support will be provided by all existing messenger of studies.  Support will be provided by utilizing a glass arm or wooden crossarm.
Bracket / Xarm Attached		List other method of attachment used.
Other Attachment Method		usi omer memou di allacimieni useu.



## **Pole Application Field Definitions**

Field	Req'd	Description
Communication Attachment T	уре	Required, choose as many as apply to your application.
Messenger Wire/Span Guy		Support wire used to support lashed cable or cables, also used as a span
		guy to support pole load imbalance.
SS Wire or Cable		
		Self supporting wire or cable not requiring a messenger for span support.
SS FO Cable		
		Self supporting fiber optic cable not requiring a messenger for span suppor
		Wire or cable attached to a pole and to an anchor used to support pole
Down Guy		moment imbalance.
Service Drop		Single self supporting cable or wire that is the last span to a customer
		structure; may be attached to the pole, messenger close to the pole or as a
		mid span drop from a messenger wire or self supporting cable.
Lashed Cable or Lashed Fiber		Single or multiple wire/cable attached to a messenger by use of lashing wire
		or tie wraps to an existing cable or wire bundle.
New & Lashed Cables Loading	g and	Please provide a sag chart based on the bundle charateristics you provide.
Bundle Data		Industry standard or company standard name of the messenger, self
New Cable Name	Υ	supporting cable, or service drop conductor.
Bundle Name		Reference name of the total bundle including existing messenger and cable
Bundle Name	Υ	plus the new cable or conductor.
Diameter		Diameter of the messenger, self supporting cable, and service drop
Diameter	Υ	conductor. (See NESC Rule 251)
Lbs/ft		Pounds per foot of the messenger, self supporting cable, or service drop
LDS/IL	Y	conductor.
		oondadd.
Existing Attachments on Pole		Measurements are required for all atachments listed below.
Lowest Power Secondary	•	Distance from lowest power secondary to the ground or street surface in fe
	Υ	and inches. Lowest power secondary may include but is not limited to a dr
		loop, service service to customer, top of a power riser, etc.
Street Light Mast	v	Distance from lowest point on street light hardware to the ground or street
	Υ	surface in feet and inches.
CATV	Υ	Distance from cable tv attachment on pole to the ground or street surface in
	Y	feet and inches.
Telephone	Υ	Distance from telephone attachment on pole to the ground or street surface
	1	in feet and inches.
Fiber	Υ	Distance from fiber attachment on pole to the ground or street surface in fe
	."	and inches.
Other 1 and Other 2	Y	Distance from other related attachment on pole to the ground or street
	•	surface in feet and inches.
Lowest Comm. Midspan	Υ	Distance from the lowest communcation midspan to the ground or street
	•	surface in feet and inches.
Guy Information		You are required to provide your own anchor and place a suitably rated stra
<u>Out intorridation</u>		insulator in your down guy.
Type and Material	.,	List type of guy (DE - dead end; BISEC - bisector guy for angles; SDWLK -
	Υ	side walk guy) and guy material (EHS; AWLD; OTHER).
Size	Ý	List size for guy size in fractional inches. (1/4; 5/16; 3/8; etc.).
	Υ	Guy attachment height.
Attach Height	Ý	Guy lead length from center of pole to anchor ground line.
	1	The state of the state of the section and the
Lead Length	1	Guy bearing with the back span for the pole as the reference point.
	1	Guy bearing with the back span for the pole as the reference point.  Tension of the guy before installation of messenger, self supporting cable,
Lead Length Bearing	1	Guy bearing with the back span for the pole as the reference point.  Tension of the guy before installation of messenger, self supporting cable, conductor.  Maximum anchor loading for your proposed guy.



## **Pole Application Field Definitions**

Field	Reg'd	Description
Application Data	· · · · · · · · · · · · · · · · · · ·	
Other Communication Atta	achment Ty	pes
Power Supply		A specialized equipment box supplying power to TV line amp equipment.  Maximum size for pole mounted power supply is 26"h x26"w x 20"d
Equipment Box		An enclosed box used to protect junction terminals or other equipment.
Size		Sless than 8"h x 8"w x 4"d; Mbetween 8"h x 8"w x 4"d and 12"h x12"w x 6"d; Llarger than 12"h x12"w x 6"d but must be less than 26"h x26"w x 20"d
PA/BA		Equipment box is Pole Attached or Bracket Attached
Comm Riser		Indicates Communication conduit riser attached or pole.
Size		Diameter of conduit riser.
PA/BA		Conduit riser is Pole Attached or Bracket Attached
FO Storage & Length		Indicates fiber optic storage on strand and length of stored cable in feet.
Telco Splice		Telco splice enclosure usually located on messenger.
TV Amp		TV amplifier box usually located on messenger.
Comments and Make Rea	<u>dy</u>	List comments and all make ready work required to accommodate your attachment in compliance with all applicable safety and construction

standards. Make ready should indicate who needs to take corrective action, and what the corrective action should be taken to resolve existing violations, or to accomodate your proposed attachment.

## **Pole Numbering**

PacifiCorp employs an intelligent numbering system for most of its service territory. This system is base on the meridian, quadrant, township, and range coordinate system combined with a numbering sequence. The pole plate consists of a top and bottom section. The top section contains a minimum of four digits that define the township and range, but may include numbers indicating the meridian and quadrant. There are six digits on the bottom. The first two indicate the section, the middle two indicate the grid, and the last two are the sequence numbers.\*

Sequence numbers do not indicate further grid coordinates, however, they may indicate the ownership of the pole as follows: \*

- 00 through 39: Company owned distribution poles.
- 40 through 59: Foreign owned utility poles contacted by PacifiCorp.
- 60 through 69: Transmission structures with distribution under-build.
- 70 through 79: Customer owned poles.
- \* Utah, Idaho, and Western Wyoming sequence numbers do not reflect ownership or type of structure.



## **Construction Standards**

The National Electric Safety Code (NESC), National Electric Code (NEC), additional state and/or federal regulations, and PacifiCorp's Distribution Construction Standards will be applied to all attachments of PacifiCorp's poles. These codes specifically outline all of the necessary safety practices that must be adhered to for the protection of the employees that work on these facilities and the general public.

PacifiCorp's Joint Use Distribution Construction Standards are enclosed, and the Licensee will need to acquire the additional codebooks from a local technical bookstore or order them from the Internet. In addition to bookstores, the NESC and NEC code books can be ordered from the Institute of Electronic and Electrical Engineers through their Website at <a href="https://www.ieee.org">www.ieee.org</a>.

PacifiCorp's standards and state or local standards may be more stringent than some of the codes listed in these sources. All attachments must meet the minimum requirements of the more stringent of the codes.

## **Regional Standards**

#### Utah

- At intersections and other points adjacent to or crossing State and Federal highways, minimum clearances are NESC plus 8 feet.
- Crossing any public roadway, the minimum ground clearance is 18 feet.

#### Washington

• Along or crossing a state or federal highway, 24 feet of ground clearance is required.

County, municipal, or other local standards are not listed in this document.

# Sample Application

PACIFICORP JOINT USE APPLICATION FOR ATTACHMENT AND/OR MODIFICATION
NJUNS/Foreign App. # Step # Company Date
XYZ 0204 Node 3
Contact Person   Joe Cable Guy   Phone # (999) 111-4444
Pole/Span/Attachment Owner Map String 05233079.0 Owner Pole # 191402
Information Other Utility Pole # FS/TS Pole # 191404
GPS Coordinates Lat. + . Long
Address 123 W Columbus St, Townsville Zip Code 91999
FS/TS Bearing 0 Deg FS/TS Length 203 Ft Proposed Attachment Height 21' 3" Ft
BS Bearing 1 8 0 Deg BS Length 197 Ft Attachment Pole Bearing Deg
Attachment Offset ( arms, crossarms, or swinging corners or midspan tap) X Ft Y Ft Z Ft Z
Communication Attachment - Action New Attach x Overlash Remove (no detail needed for removal)
- Attachment Point Method Pole Attached X Messenger Attached Glass/Wood Arm Other
- Type Messenger Wire SS Wire/Cable SS Fiber Optic Cable Down Guy & Anchor Span Guy
Lashed Cable X Lashed Fiber Service Drop Other
New & Lashed Cables Loading and Bundle Data
New Cable Name 24 Count Fiber Diameter 0.5 in Weight/ft 0.09 Lbs
Bundle Name Strand, Existing .625, 24 Count Fiber Diameter 1.5 in Weight/ft 0.40 Lbs
Existing Attachments on Pole List distance from existing attachment to ground or street surface.
Lowest Power Secondary Height 25' (1 & in Fiber Height 1 & n
Street Light Mast Height 23' 10 It & in Other 1 Height It & in
CATV Height 22' 4" ft & in Other 2 Height ft & in
Telephone Height 21'3" (t & in Lowest Comm. Midspan Height 18'9" (t & in
Guy Information (You must supply your own anchor unless you have made separate application to attach to PacifiCorp's anchor and have received prior approval.)
Type and Material Size
Atch Hgt Ft Lead Length Fl Bearing Deg PreLoad Lbs AncLoad Lbs
Other Communication Attachment Information Attachment Height Ft Attachment Bearing Deg
Power Supply Equip/Jnctn Box Size (S, M, L) PA/ BA F.O. Storage & Length
Telco Splice TV Amp Other x Comm Riser BA PA/ BA Comm Riser Size 2" in
Power Utility Attachment Type Primary City Neutral Secondary City Service City
Power Attachment Information Transformer Primary Riser Secondary Riser Attach Bearing Deg
Street Light Control Eqp. Owner Guy/Anchor Other
Comments and Make Ready Work needed to accommodate your attachment in compliance with safety and construction standards.
Prior to overlash, XYZ will arrange for Telco to move down, making room for XYZ to relocate attachment for 40" clearance to Pacific Power
secondary and 20" clearance to street light mast.
Date:
Applicant Signature Date
PacifiCorp Use Only  Not Account, Additional Information or Make Ready Required  Date
Not Approved - Additional Information or Make Ready Required Date
Application Approved Date Emp. ID



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