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

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

PACIFICORP

JOINT USE APPLICATION FOR ATTACHMENT AND/OR MODIFICATION

NJUNS/Foreign App. # | Step # | Company | Date

Contact Person | Phone #

Pole/Span/Attachment Information

Owner Map String | Owner Pole # | Other Utility Pole # | FS/TS Pole #

GPS Coordinates Lat. + . Long - .

Address

City | State | Zip Code

FS/TS Bearing Deg | FS/TS Length Ft | Proposed Attachment Height Ft

BS Bearing 1 8 0 Deg | BS Length Ft | Attachment Pole Bearing Deg

Attachment Offset (arms, crossarms, 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 ☐ Messenger Attached ☐ Glass/Wood Arm ☐ Other

- Type ☐ Messenger Wire ☐ SS Wire/Cable ☐ SS Fiber Optic Cable ☐ Down Guy & Anchor ☐ Span Guy
☐ Lashed Cable ☐ Lashed Fiber ☐ Service Drop ☐ Other

New & Lashed Cables Loading and Bundle Data

New Cable Name | Diameter in | Weight/ft Lbs

Bundle Name | Diameter in | Weight/ft Lbs

Existing Attachments on Pole List distance from existing attachment to ground or street surface.

Lowest Power Secondary	Height ft & in		Telephone	Height ft & in	
Street Light Mast	Height ft & in		Fiber	Height ft & in	
Street Light Conductor	Height ft & in		Other	Height ft & in	
CATV	Height ft & in		Lowest Comm. Midspan	Height ft & 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 Ft | 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 Ft

☐ Telco Splice ☐ TV Amp ☐ Other ☐ Comm Riser ☐ PA/ BA Comm Riser Size in

Power Utility Attachment Type ☐ Primary Qty ☐ Neutral ☐ Secondary Qty ☐ Service Qty

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.

Applicant Signature | Date

PacifiCorp Use Only

☐ Not Approved - Additional Information or Make Ready Required | Date

☐ Application Approved | Date | Emp. ID

PACIFICORP JOINT USE APPLICATION FOR SERVICE DROP ATTACHMENT AND/OR MODIFICATION

NJUNS/Foreign App. #	Step #	Company	Date

Contact Person _____ Phone # _____

Pole / Location Information

Owner Map String _____ Owner Pole # _____

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 ☐ Messenger Attached ☐ Glass/Wood Arm ☐ Other _____

Attachment Detail

Attachment Height _____ Svc Drop Length _____ Ft *Service Drop Bearing _____ Deg

Name of Service Drop Conductor / Wire / Cable _____

** Service Drop Sag or Tension Sag _____ Ft or Tension _____ Lbs

* (*Magnetic North*)Assumed to be worst case bearing to give maximum moment on the pole.

** Assumed default sag or tension for 100 ft. service drop with a 12 foot attachment height on customer's facilities with a 15.5 foot hot clearance 75 feet from pole.

Sketch and Comments

Applicant Signature _____ Date _____

PacifiCorp Use Only

☐ Not Approved - Addtional Information or Make Ready Required _____ Date _____

☐ Application Approved _____ Date _____ Emp. ID _____

PACIFICORP JOINT OCCUPANT LOAD DATA INFORMATION

Field	Req'd	Description
Application Data		
NJUNS / Foreign App. #	Y	PA NJUNS ticket serial number. Foreign utility application # if not using NJUNS.
Step #	Y	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	Y	Applying company name.
Date	Y	Date on NJUNS ticket or date of application.
Pole/Span/Attachment		
Owner Map String	Y	PacifiCorp's map string identfied 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.
Pole Number	Y	PacifiCorp's pole number identfied on the pole tag. Usually the lower number 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 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	Y	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 Attachment Action		Required, choose one.
New Attach		You are placing a new attachment on the pole.
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 to pole.
Messenger Attached		Support will be provided by an existing messenger or strand.

Bracket / Xarm Attached	Support will be provided by utilizing a glass arm or wooden crossarm.
Other Attachment Method	List other method of attachment used.
Communication Attachment Type	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 support.
Down Guy	Wire or cable attached to a pole and to an anchor used to support pole 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 and Bundle Data		Please provide a sag chart based on the bundle charateristics you provide.
New Cable Name	Y	Industry standard or company standard name of the messenger, self supporting cable, or service drop conductor.
Bundle Name	Y	Reference name of the total bundle including existing messenger and cable, plus the new cable or conductor.
Diameter	Y	Diameter of the messenger, self supporting cable, and service drop conductor. (See NESC Rule 251)
Lbs/ft	Y	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	Y	Distance from lowest point on street light hardware to the ground or street surface in feet and inches.
Street Light Conductor	Y	Distance from lowest point of conductor entering street light.
CATV	Y	Distance from cable tv attachment on pole to the ground or street surface in feet and inches.
Telephone	Y	Distance from telephone attachment on pole to the ground or street surface in feet and inches.
Fiber	Y	Distance from fiber attachment on pole to the ground or street surface in feet 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	Y	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	Y	List type of guy (DE - dead end; BISEC - bisector guy for angles; SDWLK - side walk guy) and guy material (EHS; AWLD; OTHER).
Size	Y	List size for guy size in fractional inches. (1/4; 5/16; 3/8; etc.).
Attach Height	Y	Guy attachment height.
Lead Length	Y	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 Attachment Types		
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		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
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 Ready Work

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.

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Joint Use Project Spreadsheet

NJUNS/Foreign App. # _____ Date _____ City _____

Company _____

Contact Person _____ Phone _____ State _____

Pole Number and Location Information				Proposed Attachment				New Cable Information			Total Bundle		Existing Attachments List distance from attachment to ground or street surface (Ft. & In.)										Make Ready
#	PP&L Map String	PP&L Pole No.	Pole Address (Location)	Height (Ft. & In.)	Attachment Action	Attachment Point Method	Attachment Type	New Cable Name	Diam.	lbs/ Ft.	Diam.	lbs/ Ft.	Lowest Power Secondary	Street Light Mast	Street Light Conductor	Cable TV	Tele-phone	Fiber	Other _____	Lowest Comm. Midspan	Midspan Pole Reference #	Span to Next Pole (Ft.)	Describe all Make Ready Required to complete your attachment in compliance with NESC, PacifiCorp, and Local standards
1																							
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							
13																							
14																							
15																							
16																							

PACIFICORP

Joint Use Project Spreadsheet

NJUNS/Foreign App. # _____ Date _____

Company _____

Contact Person _____ Phone _____

Pole Number and Location Information				Proposed Attachment				New Cable Information			Total Bundle		List distance from :			
#	PP&L Map String	PP&L Pole No.	Pole Address (Location)	Height (Ft. & In.)	Attachment Action	Attachment Point Method	Attachment Type	New Cable Name	Diam.	lbs/ Ft.	Diam.	lbs/ Ft.	Lowest Power Secondary	Street Light Mast	Street Light Conductor	Cable TV
1																
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																

City _____

State _____

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

PACIFICORP

Joint Use Project Spreadsheet

NJUNS/Foreign App. # _____ Date _____

Company _____

Contact Person _____ Phone _____

Pole Number and Location Information				Proposed Attachment				New Cable Information			Total Bundle		List distance from:			
#	PP&L Map String	PP&L Pole No.	Pole Address (Location)	Height (Ft. & In.)	Attachment Action	Attachment Point Method	Attachment Type	New Cable Name	Diam.	lbs/ Ft.	Diam.	lbs/ Ft.	Lowest Power Secondary	Street Light Mast	Street Light Conductor	Cable TV
22																
23																
24																
25																
26																
27																
28																
29																
30																

City _____

State _____

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

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JOINT USE APPLICATION FOR ATTACHMENT AND/OR MODIFICATION

NJUNS/Foreign App. #	Step #	Company	Date
XYZ 0204 Node 3	001	XYZ Company	February 10, 2004

Contact Person: Joe Cable Guy — Phone #: (999) 111-4444

Pole/Span/Attachment Information

Owner Map String: 05233079.0 — Owner Pole #: 191402

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: 180 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

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

		Diameter		Weight/ft	
New Cable Name	24 Count Fiber	0.5	in	0.09	Lbs
Bundle Name	Strand, Existing .625, 24 Count Fiber	1.5	in	0.40	Lbs

Existing Attachments on Pole — List distance from existing attachment to ground 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. Midspan	Height 18' 9" ft & 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: Ft — 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 Ft

[ ] Telco Splice [ ] TV Amp [ ] Other [x] Comm Riser [BA] PA/ BA — Comm Riser Size: 2" in

Power Utility Attachment Type

[ ] Primary Qty [ ] Neutral [ ] Secondary Qty [ ] Service Qty

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.

Applicant Signature: — Date:

PacifiCorp Use Only

[ ] Not Approved - Addtional Information or Make Ready Required — Date

[ ] Application Approved — Date — Emp. ID

PACIFICORP

Joint Use Project Spreadsheet

NJUNS/Foreign App. # Madison Node 17 Date 2/10/2004 City Townesville

Company CDI Fiber Company

Contact Person Joe Comtech Phone (307) 577-6965 State UT

Pole Number and Location Information				Proposed Attachment				New Cable Information			Total Bundle		Existing Attachments List distance from attachment to ground or street surface (Ft. & In.)										Make Ready
#	PP&L Map String	PP&L Pole No.	Pole Location / Address / Zip	Height (Ft. & In.)	Attachment Action	Attachment Point Method	Attachment Type	New Cable Name	Diam.	lbs/ Ft.	Diam.	lbs/ Ft.	Lowest Power Secondary	Street Light Mast	Street Light Conductor	Cable TV	Tele-phone	Fiber	Other	Lowest Comm. Midspan	Midspan Pole Reference #	Span to Next Pole (Ft.)	Describe all Make Ready Required to complete your attachment in compliance with NESC, PacifiCorp, and Local standards
1		M26563	North side of Hwy 126 on BPA property by entrance vault	32' 0"	New	Pole Attached	TV Amp, Messenger & Fiber	24 Pair Fiber	0.425	0.01	0.675	0.35	NA	NA	NA	NA	NA	NA	NA	NA	170461	182	CDI to install anchor
2	01325013	189460	South side Hwy-126, 1st pole west of SW 35th St	25' 2"	New	Pole Attached	Messenger & Fiber	24 Pair Fiber	0.425	0.01	0.675	0.35	28' 1"	NA	NA	NA	23' 8"	NA	NA	21' 5"	171460	260	Request that Pacific Power extend riser 12" for 40" clearance to new attachment.
3		M56987	South side Hwy-126, south west corner of SW 35th St	26' 0"	New	Pole Attached	Lashed Cable	24 Pair Fiber	0.425	0.01	0.675	0.35	29' 9"	NA	NA	NA	24' 1"	NA	NA	22'	123456	253	Prior to overlash, CDI Fiber will resag existing cable to gain require midspan clearance from the primary Neutral.
4		B26369	South side Hwy-126, 1st pole east of SW 35th St	25' 4"	New	Pole Attached	Messenger & Fiber	24 Pair Fiber	0.425	0.01	0.675	0.35	28' 6"	26' 3"	25'3"	NA	24' 5"	NA	NA	22'		250	CDI Fiber will arrange for Telco to move down 12" making room for Fiber clearances to secondary and street light.
5	01325013	171460	South side Hwy-126, 2nd pole east of SW 35th St	25' 2"	Overlash	Messenger	Lashed Cable	24 Pair Fiber	0.425	0.01	1.25	0.65	30'	NA	NA	NA	23' 8"	25' 2"	NA	21' 4"			Reqest estimate from Pacific Power to replace pole with 5 foot taller pole.
6																							
7																							
8																							
9																							
10																							
11																							
12																							
13																							
14																							
15																							

Pole Attachment Application Package

February 2004

PACIFICORP

Table of Contents

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

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

PACIFICORP

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: www.NJUNS.com 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.

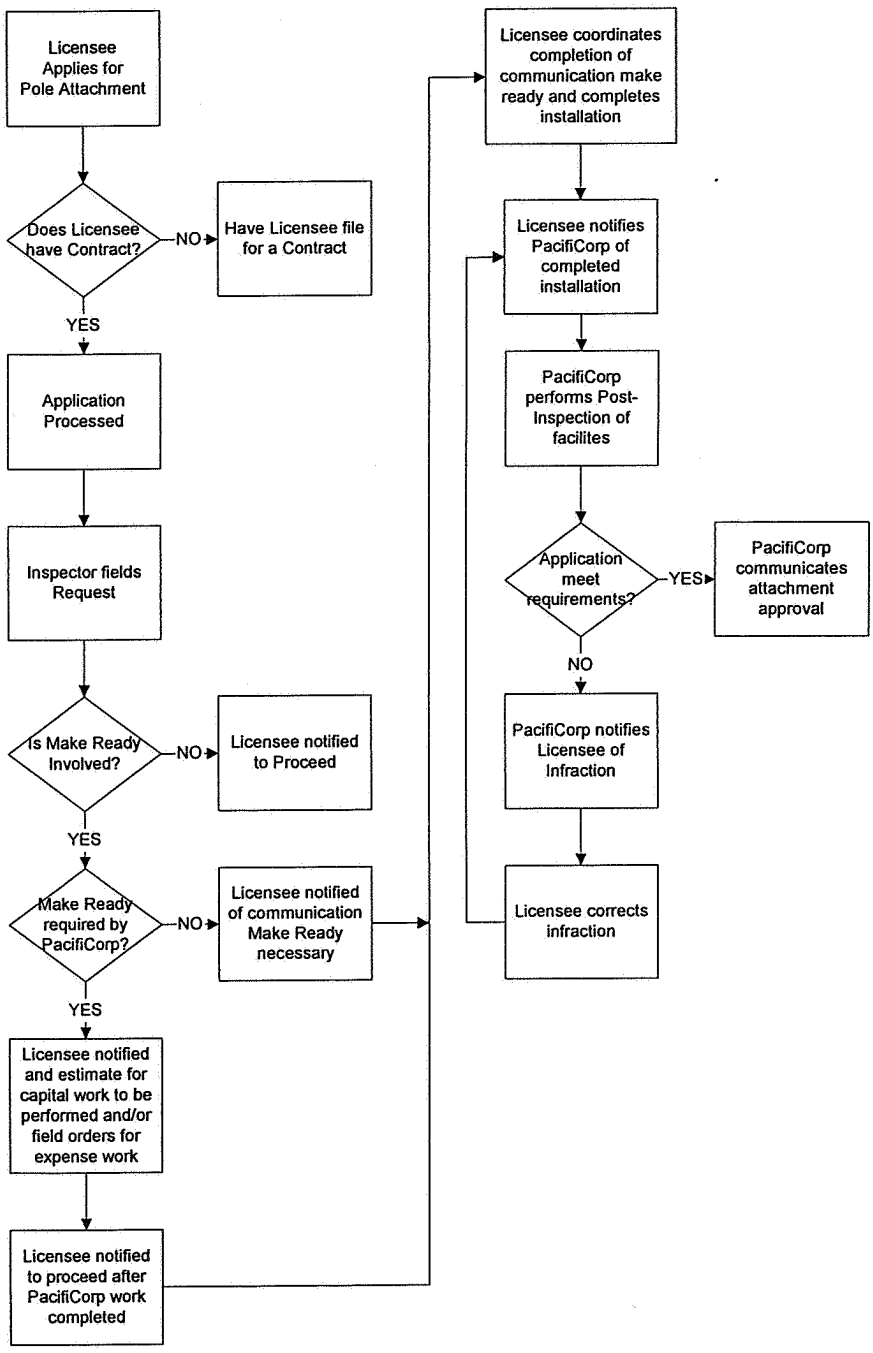
CALIFORNIA, IDAHO, UTAH, and WYOMING *

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



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Application for Attachment

PACIFICORP JOINT USE APPLICATION FOR ATTACHMENT AND/OR MODIFICATION

NJUNS/Foreign App. # | Step # | Company | Date

Contact Person | Phone #

Pole/Span/Attachment Information

Owner Map String | Owner Pole # | 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 180 Deg | BS Length Ft | Attachment Pole Bearing Deg

Attachment Offset (arms, crossarms, 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 ☐ Messenger Attached ☐ Glass/Wood Arm ☐ Other

- Type ☐ Messenger Wire ☐ SS Wire/Cable ☐ SS Fiber Optic Cable ☐ Down Guy & Anchor ☐ Span Guy ☐ Lashed Cable ☐ Lashed Fiber ☐ Service Drop ☐ Other

New & Lashed Cables Loading and Bundle Data

New Cable Name | Diameter in | Weight/ft Lbs

Bundle Name | Diameter in | Weight/ft Lbs

Existing Attachments on Pole List distance from existing attachment to ground or street surface.

Lowest Power Secondary	Height ft & in	Fiber	Height ft & in
Street Light Mast	Height ft & in	Other 1	Height ft & in
CATV	Height ft & in	Other 2	Height ft & in
Telephone	Height ft & in	Lowest Comm. Midspan	Height ft & 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 Ft | 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 Ft

☐ Telco Splice ☐ TV Amp ☐ Other ☐ Comm Riser ☐ PA/ BA Comm Riser Size in

Power Utility Attachment Type ☐ Primary Qty ☐ Neutral ☐ Secondary Qty ☐ Service Qty

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.

Applicant Signature | Date

PacifiCorp Use Only

☐ Not Approved - Additional Information or Make Ready Required | Date

☐ Application Approved | Date | Emp. ID

PACIFICORP

Application for Service Drop Only

PACIFICORP JOINT USE APPLICATION FOR SERVICE DROP ATTACHMENT AND/OR MODIFICATION

NJUNS/Foreign App. # | Step # | Company | Date

Contact Person | Phone #

Pole / Location Information
Owner Map String | Owner Pole # | 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 ☐ Messenger Attached ☐ Glass/Wood Arm ☐ Other

Attachment Detail

Attachment Height | Svc Drop Length Ft | *Service Drop Bearing Deg

Name of Service Drop Conductor / Wire / Cable

** Service Drop Sag or Tension Sag Ft or Tension Lbs

* (*Magnetic North*) Assumed to be worst case bearing to give maximum moment on the pole.

** Assumed default sag or tension for 100 ft. service drop with a 12 foot attachment height on customer's facilities with a 15.5 foot hot clearance 75 feet from pole.

Sketch and Comments

Applicant Signature | Date

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☐ Not Approved - Additional Information or Make Ready Required | Date

☐ Application Approved | Date | Emp. ID

Pole Application Field Definitions

Field	Req'd	Description
Application Data		
NJUNS / Foreign App. #	Y	PA NJUNS ticket serial number. Foreign utility application # if not using NJUNS.
Step #	Y	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	Y	Applying company name.
Date	Y	Date on NJUNS ticket or date of application.
Pole/Span/Attachment		
Owner Map String	Y	PacifiCorp's map string identfied 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.
Pole Number	Y	PacifiCorp's pole number identfied on the pole tag. Usually the lower number 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 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	Y	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 Attachment Action		Required, choose one.
New Attach		You are placing a new attachment on the pole.
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 to pole.
Messenger Attached		Support will be provided by an existing messenger or strand.
Bracket / Xarm Attached		Support will be provided by utilizing a glass arm or wooden crossarm.
Other Attachment Method		List other method of attachment used.

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Pole Application Field Definitions

Field	Req'd	Description
Communication Attachment Type		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 support.
Down Guy		Wire or cable attached to a pole and to an anchor used to support pole 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 and Bundle Data		Please provide a sag chart based on the bundle charateristics you provide.
New Cable Name	Y	Industry standard or company standard name of the messenger, self supporting cable, or service drop conductor.
Bundle Name	Y	Reference name of the total bundle including existing messenger and cable, plus the new cable or conductor.
Diameter	Y	Diameter of the messenger, self supporting cable, and service drop conductor. (See NESC Rule 251)
Lbs/ft	Y	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	Y	Distance from lowest point on street light hardware to the ground or street surface in feet and inches.
CATV	Y	Distance from cable tv attachment on pole to the ground or street surface in feet and inches.
Telephone	Y	Distance from telephone attachment on pole to the ground or street surface in feet and inches.
Fiber	Y	Distance from fiber attachment on pole to the ground or street surface in feet 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	Y	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	Y	List type of guy (DE - dead end; BISEC - bisector guy for angles; SDWLK - side walk guy) and guy material (EHS; AWLD; OTHER).
Size	Y	List size for guy size in fractional inches. (1/4; 5/16; 3/8; etc.).
Attach Height	Y	Guy attachment height.
Lead Length	Y	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.

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Pole Application Field Definitions

Field	Req'd	Description
Application Data		
Other Communication Attachment Types		
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		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
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 Ready Work		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 www.ieee.org .

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	001	XYZ Company	February 10, 2004

Contact Person: Joe Cable Guy — Phone #: (999) 111-4444

Pole/Span/Attachment Information

Owner Map String: 05233079.0 — Owner Pole #: 191402

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: 180 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

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' ft & in	Fiber	Height ft & in
Street Light Mast	Height 23' 10 ft & in	Other 1	Height ft & in
CATV	Height 22' 4" ft & in	Other 2	Height ft & in
Telephone	Height 21' 3" ft & in	Lowest Comm. Midspan	Height 18' 9" ft & 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: Ft — 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 Ft

[ ] Telco Splice [ ] TV Amp [ ] Other [x] Comm Riser [BA] PA/ BA — Comm Riser Size: 2" in

Power Utility Attachment Type

[ ] Primary Qty [ ] Neutral [ ] Secondary Qty [ ] Service Qty

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.

Applicant Signature: — Date:

[ ] Not Approved - Addtional Information or Make Ready Required — Date — PacifiCorp Use Only

[ ] Application Approved — Date — Emp. ID