



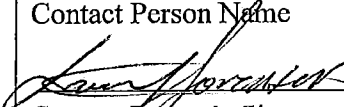
WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

)	DOCKET NO. TR-
)	
Puget Sound & Pacific Railroad)	PETITION TO MODIFY HIGHWAY-
_____)	RAIL GRADE CROSSING ACTIVE
Petitioner,)	WARNING DEVICES AND
)	DISBURSEMENT OF FUNDS
vs.)	FROM THE GRADE CROSSING
Various, see attached contacts)	PROTECTIVE FUND
_____)	
Respondent)	
)	
)	USDOT CROSSING #
.....)	Various – see attached
)	

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 STATE OF WASH.
 UTILITIES AND TRANSPORTATION
 COMMISSION

The Petitioner asks the Washington Utilities and Transportation Commission to approve the modification of highway-rail grade crossing warning signals and disburse funds from the Grade Crossing Protective Fund.

Section 1 – Petitioner’s Information

Puget Sound & Pacific Railroad _____ Petitioner
1710 Midway Court _____ Street Address
Centralia, WA 98531 _____ City, State and Zip Code
_____ Mailing Address, if different than the street address
Larry Sorensen _____ Contact Person Name
 _____ Contact Person’s Signature
904-999-5031 larry.sorensen@gwrr.com _____ Contact Phone Number and Email Address

Section 2 – Respondent's Information

_____ Various, see attached contacts _____
Respondent _____
Street Address _____
City, State and Zip Code _____
Mailing Address, if different than the street address _____
Contact Person Name _____
Contact Phone Number and Email Address _____

Section 3 – Crossing Location

1. Existing highway/roadway <u>Various, see attached</u> _____
2. Existing railroad <u>Various, see attached</u> _____
3. USDOT Crossing No. <u>Various, see attached</u> _____
4. Located in the _____ 1/4 of the _____ 1/4 of Sec. _____, Twp. _____, Range _____ W.M.
5. GPS location, if known <u>Various, see attached</u> _____
6. Railroad mile post (nearest tenth) <u>Various, see attached</u> _____
7. City <u>Various, see attached</u> _____ County <u>Various, see attached</u> _____

Section 4 – Current Highway Traffic Information

1. Name of highway Various, see attached

2. Road authority Various, see attached

3. Average annual daily traffic (AADT) Various, see attached

4. Number of lanes Various, see attached

5. Roadway speed Various, see attached

6. Is the crossing part of an established truck route? Yes _____ No _____

7. If so, trucks are what percent of total daily traffic? _____

8. Is the crossing part of an established school bus route? Yes _____ No _____

9. If so, how many school buses travel over the crossing each day? _____

10. Describe any changes to the information in 1 through 7, above, expected within ten years:

None anticipated

Section 5 – Current Crossing Information

1. Railroad company Puget Sound & Pacific Railroad

2. Type of railroad at crossing Common Carrier Logging Industrial
 Passenger Excursion

3. Type of tracks at crossing Main Line Siding or Spur

4. Number of tracks at crossing Various, see attached

5. Average daily train traffic, freight Various, see attached

 Authorized freight train speed See attached Operated freight train speed See attached

6. Average daily train traffic, passenger None

 Authorized passenger train speed _____ Operated passenger train speed _____

7. Describe any changes to the information in 1 through 4, above, expected within ten years:

Train traffic is expected to increase, but do not know how much.

8. What is the available sight distance from the stop bar (or 25 feet from the tracks if no stop bar) on both approaches to the crossing?

_____ N/A _____

9. If the sight distance is less than 400 feet, describe the structures, roadway or track curvature, visual obstacles or other characteristics that limit sight distance.

_____ N/A _____

Section 6 – Current Warning Devices

1. Provide a complete description of the warning devices currently located at the crossing, including signs, gates, lights, train detection circuitry and any other warning devices.

Various, see attached.

Section 8 – Illustration of Proposed Warning Devices

Attach a detailed diagram, drawing, map or other illustration showing the proposed modification.

Section 9 – Use of Surplus Equipment

If surplus or used equipment is being installed as part of the project, please review the following statement and sign, accepting the terms and conditions.

“The recipient of surplus equipment voluntarily accepts the equipment as is. Proper installation and testing is required per Code of Federal Regulations 49, prior to activating the signal equipment. The recipient assumes full responsibility for functionality of the equipment.”

Name (print): _____ N/A _____
Title: _____
Company: _____
Signature: _____
Date: _____

Section 10 – Project Cost Information

1. Breakdown of estimated total cost.
140 Individual mast lights units are being purchased from Leotek Electronics for \$70.00 each.
20 Gate light sets are being purchased from National Electric Gate Co. for \$162.85 each.
Washington Sales Tax @ 7.7% and Shipping estimated at 5%.
140 x \$70.00 = \$9,800.00; 20 x \$162.85 = \$3,257.00; Total: \$13,057.00;
Sales tax = \$1005.39; Handling = \$652.85; **Total Project Cost = \$14,715.24**
2. Names of the parties contributing to the project and the amount each is contributing.

WUTC GCPF grant award to pay full cost of materials. Puget Sound & Pacific will pay for all labor.

3. Provide the amount the applicant is requesting from the GCPF grant program.
\$20,000.00 is requested. RR will purchase only units proposed based on actual costs.

Section 11 – Project Completion Date

Project completion date: June 30, 2015

Section 12 – Waiver of Hearing by Respondent

Waiver of Hearing

The undersigned represents the Respondent in the petition to modify highway-rail grade crossing warning signals at the following crossing:

USDOT Crossing No. _____

We have investigated the conditions at the crossing. We are satisfied the conditions are the same as described by the Petitioner in this docket. We agree the warning signals should be modified and consent to a decision by the commission without a hearing.

Dated at _____, Washington, on the _____ day of _____, 20 ____.

Printed name of Respondent

Signature of Respondent's Representative

Title

Phone number and e-mail address

Mailing address

PUGET SOUND AND PACIFIC RAILROAD



PUGET SOUND AND PACIFIC RAILROAD



SECTION 3: CROSSING LOCATION					SECTION 4: ROADWAY INFORMATION					SECTION 4				SECTION 5: TRACK INFORMATION				SECTION 6: WARNING DEVICES											
STREET NAME	DOT #	RAILROAD M.P.	LOCATION	GPS COORDINATES	CITY	COUNTY	ROAD AUTHORITY	AADT	NUMBER OF LANES	ROADWAY SPEED	TRUCK ROUTE?	% TRUCKS OF AADT	STREET NAME	SCHOOL BUS ROUTE?	NUMBER OF BUSES PER DAY	RAILROAD TYPE	TYPE OF TRACK	NUMBER OF TRACKS AT CROSSING	DAILY FREIGHT TRAFFIC	TRAIN SPEED (MPH)	PASSENGER TRAIN TRAFFIC	FUTURE TRAFFIC	X-BUCKS	FLASHING LIGHTS	GATES	BELL	CANTILEVER FLASHING LIGHTS	TRAIN DETECTION SYSTEM	
ELMA SUB													ELMA SUB																
BRADY LOOP RD	0966588	55.41	S4 T17N R7W	46 986260, -123 5662290	MONTESANO	GRAVY HARBOR COUNTY	489	3	35	NO	11	BRADY LOOP RD	NO	0	COM. CARRIER	MAIN	1	8	15 - 25	0	??	3	3	3	1	0	REDUNDANT MOTION SENSOR		
MONTE BRADY RD	096652K	53.33	S36 T18N R7W	46 995415, -123 511777	SATSOP	GRAVY HARBOR COUNTY	610	2	35	NO	11	MONTE BRADY RD	NO	0	COM. CARRIER	MAIN	1	8	15 - 25	0	??	2	2	2	2	1	2	REDUNDANT CONSTANT WARNING	
MONTE ELMA RD	096650W	51.99	S31 T18N R6W	47 002780, -123 4942760	SATSOP	GRAVY HARBOR COUNTY	2800	2	30	YES	11	MONTE ELMA RD	YES	20	COM. CARRIER	MAIN	1	8	15 - 25	0	??	4	4	2	1	2	REDUNDANT MOTION SENSOR		
HURD RD	096643L	50.07	S33 T18N R6W	47 0070190, -123 4446030	ELMA	GRAVY HARBOR COUNTY	800	2	25	NO	11	HURD RD	YES	6	COM. CARRIER	MAIN	1	8	15 - 25	0	??	2	2	2	2	1	0	REDUNDANT MOTION SENSOR	
PORTER CREEK RD	092503A	41.49	S21 T17N R5W	46 9395030, -123 3131640	PORTER	GRAVY HARBOR COUNTY	768	3	45	YES	11	PORTER CREEK RD	YES	4	COM. CARRIER	MAIN	1	8	15 - 25	0	??	3	3	3	1	2	REDUNDANT MOTION SENSOR		
SR 121	092574S	10.98	S32 T16N R3W	46 825256, -123 096337	ROCHESTER	THURSTON COUNTY	960	2	35	NO	6	SR 121	YES	20	COM. CARRIER	MAIN	1	8	15 - 25	0	??	2	2	2	1	2	REDUNDANT CONSTANT WARNING		
183RD AVE S.W.	092573K	10.05	S5 T15N R3W	46 821128, -123 07672	ROCHESTER	THURSTON COUNTY	750	2	35	NO	7	183RD AVE S.W.	YES	60	COM. CARRIER	MAIN	1	8	15 - 25	0	??	2	2	2	2	1	2	REDUNDANT CONSTANT WARNING	
JOSELYN AVE	092569P	8.46	S10 T15N R3W	46 8069920, -123 0490720	ROCHESTER	THURSTON COUNTY	121	2	35	NO	7	JOSELYN AVE	YES	20	COM. CARRIER	MAIN	1	8	15 - 25	0	??	2	2	2	2	1	2	REDUNDANT CONSTANT WARNING	
FORON RD	092559P	3.53	S30 T15N R2W	46 7512470, -122 8915620	CENTRALIA	LEWIS COUNTY	110	2	35	NO	6	FORON RD	NO	0	COM. CARRIER	1 MAIN, 1 SIDING	2	12	15 - 25	0	??	2	2	2	0	1	0	REDUNDANT MOTION SENSOR	
PEARL ST	092547V	0.89	S41 T14N R2W	46 727639, -122 953634	CENTRALIA	LEWIS STATE	9400	2	30	NO	4	PEARL ST	YES	35	COM. CARRIER	MAIN	1	20	15 - 25	0	??	2	2	0	1	2	REDUNDANT MOTION SENSOR		
TOWER AVE	809546N	0.82	S41 T14N R2W	46 727647, -122 952231	CENTRALIA	LEWIS STATE	9400	2	30	NO	4	TOWER AVE	YES	35	COM. CARRIER	MAIN	1	20	15 - 25	0	??	2	2	2	0	1	2	REDUNDANT MOTION SENSOR	
LUM RD	809544J	2.6	S37 T14N R2W	46 735252, -122 977559	CENTRALIA	LEWIS COUNTY	2460	4	30	NO	6	LUM RD	YES	35	COM. CARRIER	MAIN	1	4	15 - 25	0	??	2	2	2	2	1	0	REDUNDANT MOTION SENSOR	
REYNOLDS AVE	092554F	2.14	S6 T14N R2W	46 7354470, -122 9736330	CENTRALIA	LEWIS COUNTY	3749	2	30	NO	6	REYNOLDS AVE	YES	35	COM. CARRIER	MAIN	1	20	5 - 25	0	??	2	2	2	2	1	2	REDUNDANT CONSTANT WARNING	

Road Authority	Contact	Address	City	State	Zip Code	Phone Number	Email Address
Grays Harbor County Thurston County Lewis County	Russell Esses Donavan Willcutt Tim Elsea	100 W. Broadway Ave., Suite 31 9605 Tilley Rd S. Ste-C 2025 NE Kresky Ave	Montesano Olympia Chehalis	Washington Washington Washington	98563 98512-9140 98532	360-249-4222 360-867-2300 360-740-1123	pwd@co.grays-harbor.wa publicworksinfo@co.thurston.wa.us Tim.Elsea@lewiscountywa.gov
Washington State	Ahmer Nizam	PO Box 47329	Olympia	Washington	98504-7329	360-705-7271	nizama@wsdot.wa.gov
Railroad	Contact	Address	City	State	Zip Code	Phone Number	Email Address
Puget Sound & Pacific	Jon Rolufs	3220 State Street, Suite 200	Salem	Oregon	97301	503-363-6074	rolufs@qwr.com

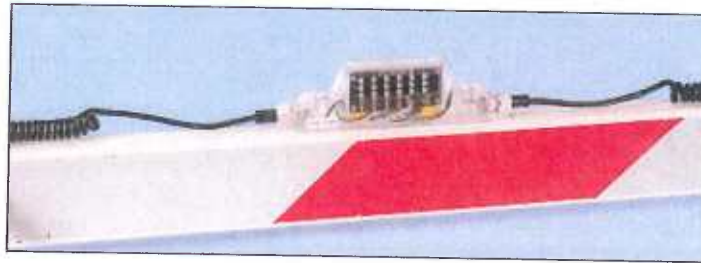
PSAP

STREET NAME	DOT #	CITY	M.P.	LIGHT HEAD S	12' Light Cost @ \$70.00	GATES	Gate Light Set Cost @ \$162.85	Total Lighting Upgrade Cost	Sales tax of 7.7%	Shipping and Handling
ELMA SUB										
BRADY LOOP RD	0966588B	MONTESANO	55.4	12	\$ 840.00	3	\$ 488.55	\$ 1,328.55	\$ 102.30	\$ 66.43
MONTE BRADY RD.	096652K	SATSOP	53.3	20	\$ 1,400.00	2	\$ 325.70	\$ 1,725.70	\$ 132.88	\$ 86.29
MONTE ELMA RD.	096650W	SATSOP	51.9	24	\$ 1,680.00	2	\$ 325.70	\$ 2,005.70	\$ 154.44	\$ 100.29
HURD RD	096642L	ELMA	50	8	\$ 560.00	2	\$ 325.70	\$ 885.70	\$ 68.20	\$ 44.29
PORTER CREEK RD	092603A	PORTER	41.4	22	\$ 1,540.00	3	\$ 488.55	\$ 2,028.55	\$ 156.20	\$ 101.43
SR 121	092574S	ROCHESTER	10.9	18	\$ 1,260.00	2	\$ 325.70	\$ 1,585.70	\$ 122.10	\$ 79.29
183RD AVE S.W.	092573K	ROCHESTER	10	16	\$ 1,120.00	2	\$ 325.70	\$ 1,445.70	\$ 111.32	\$ 72.29
JOSELYN RD	092569V	ROCHESTER	8.8	8	\$ -	2	\$ 325.70	\$ 325.70	\$ 25.08	\$ 16.29
FORON RD	092559P	CENTRAILIA	3.5	8	\$ 560.00	0	\$ -	\$ 560.00	\$ 43.12	\$ 28.00
PEARL ST	092547V	CENTRAILIA	0.3		\$ -		\$ -			
TOWER AVE	092546N	CENTRAILIA	0.1		\$ -		\$ -			
LUM RD	808544J	CENTRAILIA	2.6	12	\$ 840.00	2	\$ 325.70	\$ 1,165.70	\$ 89.76	\$ 58.29
REYNOLDS AVE	092544F	CENTRAILIA	2.4							
				140		20		\$ 13,057.00	\$ 1,005.39	\$ 652.85

PROJECT TOTAL ESTIMATED COST: \$14,715.24



LED Gate Arm Light Set



National Electric Gate Company has an LED Array Gate Arm Light Set for the most demanding railroad crossing applications. "Yours"!! National Electric Gates LED light set is practically indestructible and mounts on top of your gate arm for great visibility.

Made of polycarbonate, which gives this light box the durability for continued abuse in most knockdown traffic conditions, the LED array gate arm lights are in stock and ready for your toughest crossing applications.



Ordering Information

Item	Description	NEG Number
1	LED Array Base and Middle Head Lamp	NEG 2018-LED1
2	LED Array Unit END	NEG 2018-LED-E
3	Total LED Assembly (Complete with Coil Cords and Connectors)	NEG-2018-3LEDARR
4	Coil Cord Cables and Connectors (Only with Fittings Package)	NEG 203CCARRY

National Electric Gate Company



For more information or prototype sample please give us a call or fax us at
912-748-5090 FAX 912-748-7542

The Leader in Electro-Optics Technology



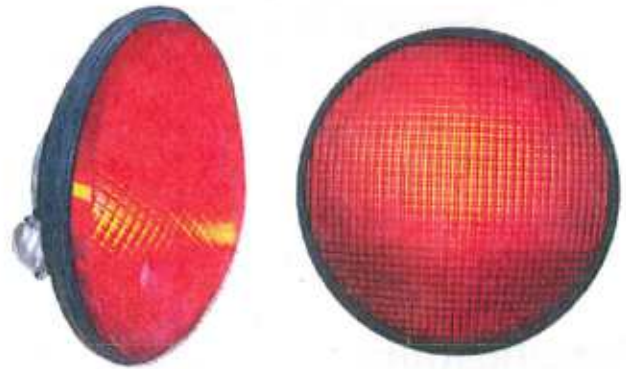
LED GREEN Technology

a subsidiary company of LITEON

LED Railroad Signal Module Grade Crossing IL Series

The Leotek Advantage

A conventional incandescent look with energy efficient, long life LED technology that provides significant energy and maintenance savings, with exceptional color uniformity and readability.



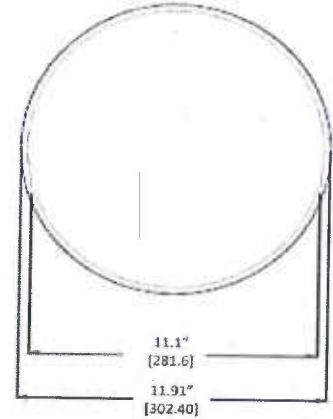
Features and Benefits

- Meets AREMA and Transport Canada standards for Safety Assurance
- Manufactured in the USA
- Side Lights for extra safety and visibility
- Excellent moisture and dust resistance
- Robust hard-coated and UV-stabilized polycarbonate lens for increased longevity against the elements
- Maintains 70% of the initial lumen intensity after 100,000 hours of operation
- 5-Year Limited Warranty

Technical Data

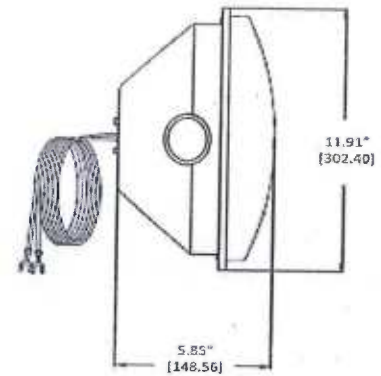
Operating Temperature:	-40°F to 165°F (-40°C to 74°C)
Operating Voltage:	8-20Vdc, 8-16Vac (50-60 Hz)
Power Factor:	>0.90
Turn-On/Turn-Off Time:	<75msec
Turn-Off Voltage:	>3.5 V ac, dc
Power Surge:	45Vrms for 80ms

Mechanical Dimensions [in(mm)]



Specifications

Moisture:	MIL-STD-810F
Photometry:	AREMA Part 3.2.35
Transient Immunity:	AREMA Part 11.3.3
Environmental Parameters:	AREMA Part 11.5.1 – Class B
Electronic Noise:	FCC Title 47 Sub. B Sec 15 Class A



Ordering Information

Model	Ball Color	Side Light Color	LED Type	Dominant Wavelength	Wattage Drawn	Input Current
TSL-12RCS-ILR-E1 with Red Side Lights	●	●	AllnGaP	626	9	750mA
TSL-12RCS-ILW-E1 with White Side Lights	●	○	AllnGaP	626	9	750mA





August 6, 2013

Washington Utilities and Transportation Commission
Attention: Grade Crossing Protective Fund
1300 S. Evergreen Park Drive SW
PO Box 47250
Olympia, WA 98504-7250

RE: GRADE CROSSING PROTECTIVE FUND 2013 – 2015 GRAND APPLICATION

Commissioners,

Please except this as the application for funds to mitigate public safety hazards at highway-railway at grade crossings in the state of Washington. Puget Sound & Pacific Railroad is seeking funds to upgrade lighting at active highway-railway grade crossings from incandescent to LED. This change will help make the warning of traffic to oncoming trains much more visible.

Current incandescent lights use a 10 Volt bulb, much like a vehicle tail light. This light bulb by itself is not very bright. What makes this light much more visible is that it uses a reflecting mirror behind and a 12 in. red lens in front to amplify and spread the light making it much brighter. Problems with this type of light are that it is highly dependent on cleanliness and condition of the mirror, lens, and bulb, and it is very directional. This requires that it be adjusted both up and down and side to side to optimize its visibility. If one is off center from the light it is very hard to see. The reason for using such a low power bulb is because railroad warning systems rely on battery power to operate so that they are much less dependent on commercial power for the safe operations of trains. The Railroad industry has always used this approach and now the FRA has codified it into law.

Whereas the highway traffic industry has always used high voltage bulbs and converting to LED lighting has mainly reduced power consumption, changing to LED lighting in the Railroad industry has much more to do with safety and operating characteristics. Recent developments by manufacturers have created LED light units that are more visible and brighter. They can be seen at a much wider angle and their intensity is constant throughout a range of voltages. These light units are just as bright at full power as they are when the crossing is reduced to less than half of its normal power. Plus they are more efficient, using less power. This becomes critical in the event of a power outage as the lights remain bright and working longer.

Sincerely,

Jon Rolufs
Manager of Signals

Puget Sound & Pacific Railroad
200 Hawthorne Ave. SE #C-320, Salem, OR 97301
Phone: 503-363-6074, FAX: 503-363-6169

The proposed project will consist of removing the lens, mirror, and bulb from the existing housings at eight highway-railway graded crossings and installing a LED unit in its place. These eight crossings have 120 light heads. The project will further replace the three lights on each gate arm with a set of sealed LED gate light units. These eight crossings have 15 gate arms. A list of crossings and unit count is included with this application.

Upgrading to LED lighting, will be a noticeable improvement to visibility and brightness.

No outside companies

Puget Sound & Pacific Railroad
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