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# TESTIMONY OF DAVID MAST

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JANUARY 10, 201

David E. Mast  
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Tillamook, OR 97141

Tel. (503) 815-2599  
dmast48@embarqmail.com

January 10, 2018

Via Email: puc.hearings@state.or.us

Oregon Public Utility Commission  
Administrative Law Judge Patrick Power  
P.O. Box 1088 Salem, OR 97308

Re: David Mast Intervenor Testimony re Petition for Certificate of Public Convenience and Necessity (PCN-2)

Please accept this testimony for the Tillamook People's Utility District (TPUD),  
Petition for Certificate of Public Convenience and Necessity.

### **EXAMINE LOADING AND CAPACITY**

In the purpose and need, Simmons mentions "*At the system level, electric usage is growing at 1.1 percent annually*". (TPUD/205 Simmons/23). The substation and transmission line were planned in 2007 in response to an optimistic load growth forecast of 2%. David – 1 The first four years were accurate. After 2011 energy sales have been flat or decreasing and as of 2016 have not returned to 2011 levels David – 2. In 2012, the board approved an energy forecast revising the load growth down to 0.45%. David – 3 The January 2017 projection that TPUD gave to the Bonneville Power Administration was for a load growth of 0.25% for the next 20 years. David – 4 The TPUD 2017 annual load forecast with BPA does not show returning to 2011 load levels until 2023.

The same TPUD that is telling you that the load growth is 1.1% is working out a purchase contract with BPA at 0.25% load growth.

The Creamery had an electric boiler and 2 diesel boilers. The creamery put in a 60,000 gallon propane tank in order to convert the diesel boilers to propane boilers. The propane boilers became the primary boilers for the creamery in August of 2015. This created a 4MW decrease in demand. Industrial electric sales dropped 32% in August 2015. David - 5

It created such a concern at PUD, worried about their contractual obligations to BPA, that there was a flurry of meetings with TPUD, BPA, NRU. TPUD hired a lawyer to write a contract with Tillamook County Creamery Association to take electricity instead of completely converting to propane. David – 6

The same PUD that wants you issue them a certificate of convenience and necessity to enable them to condemn farmers property because they want to build a transmission line to Oceanside with an average load of 5MW is the same PUD that hired a lawyer (who they hired because he had argued in front of the Ninth Circuit Court) to compel the creamery into continuing to take 4MW for their electric boiler because the reduced load would create negative consequences in their contractual obligations to BPA. In other words, their energy purchases would be at a higher rate. TPUD said that if the Creamery went to the propane boiler they would charge the farmers more for electricity.

The industrial sales went back up in December of 2015 and the full year 2016 was up from 2015, reflecting the contract with the creamery. The same TPUD that wants to spend \$13,000,000 for a transmission line and substation to Oceanside, turned down the opportunity to cut 4MW from their supposedly overloaded Wilson River II substation at no cost to them. The creamery paid to convert the boilers, it cost TPUD nothing!

In purpose and need we are told the need of the project is to reduce high loading on existing facilities (TPUD/106 Simmons/23) and that older substations not be used more than 80% of their capacity under normal operating conditions. In December 2013 the load on Wilson River II was 80% of the thermal rating and in February 2014 the load was 81% of the thermal rating. According to Fagen/50 TPUD/205 the Wilson River II was built in 2002. This load should be reasonable for this substation. For just 2 months in 7 years at 80% at a substation built in 2002, the TPUD wants to spend \$13,000,000 for a new transmission line and substation. Better options are available. They could cut 4 MW from the Wilson River II just by letting the Creamery use their propane boiler. The December 2013

load was 40.03 while the February 2014 load was 40.72. 4 MW off of a 40 MW load is a 10% reduction for free.

In the Fagen testimony, (TPUD/205 Fagen/49), it was stated that Wilson T2 load growth rate has been 1.2%. I have been tracking the monthly transformer loading data in the Engineering Section of the TPUD's Board of Directors' Report since 2011 when we became aware of the project. The data shows that the average monthly load on the Wilson River II substation has decreased 4.76 MW over the last 6 years. David – 7 This number is very close to the normal loading of 5 MW for the proposed transmission line to Oceanside. (TPUD/200 Fagen/7).

I made tables of the total system that show the average MW monthly load of the whole system David - 8. The average monthly load for the whole system was 88.5 MW. The average monthly load as a % of the 2014 thermal rating is 33%. The highest monthly MW load is 120.73 and expressed as a % of the 2014 thermal rating 45%. I have graphed the whole system average annual load and the highest MW month load David - 9. The graph is a flat line for the whole system annual load and is trending down for the Wilson River II. The Wilson River II average load is as follows starting with 2011 ending with 2017: 30.11, 28.81, 28.77, 28.01, 25.57, 25.35, 24.44 (¾ year). The Wilson River II average load as a % of the 2014 thermal rating is 57%. I do not see high loading and a need to increase capacity.

## Conclusions

It is not necessary to build a substation and transmission line when:

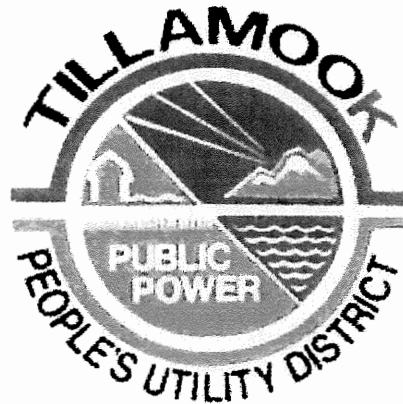
1. PUD load growth forecast is 0.25%.
2. Wilson River II load could be 4 MW lower if TPUD would let the Creamery use the propane boiler instead of electricity.
3. The Wilson River II average annual load has DROPPED 4.76 MW since 2011
4. The total system monthly load is only 33% of the 2014 thermal rating and is well under the 80% of capacity that you should not exceed if your transformers are old.

PUD does not need to build a new substation or transmission line to reduce high loading and increase capacity. The substation and transmission line should not be deemed by the commission to be necessary and convenient.

# Tillamook People's Utility District

*Load Forecast*

*2007 – 2018*



Prepared by

Jim Martin

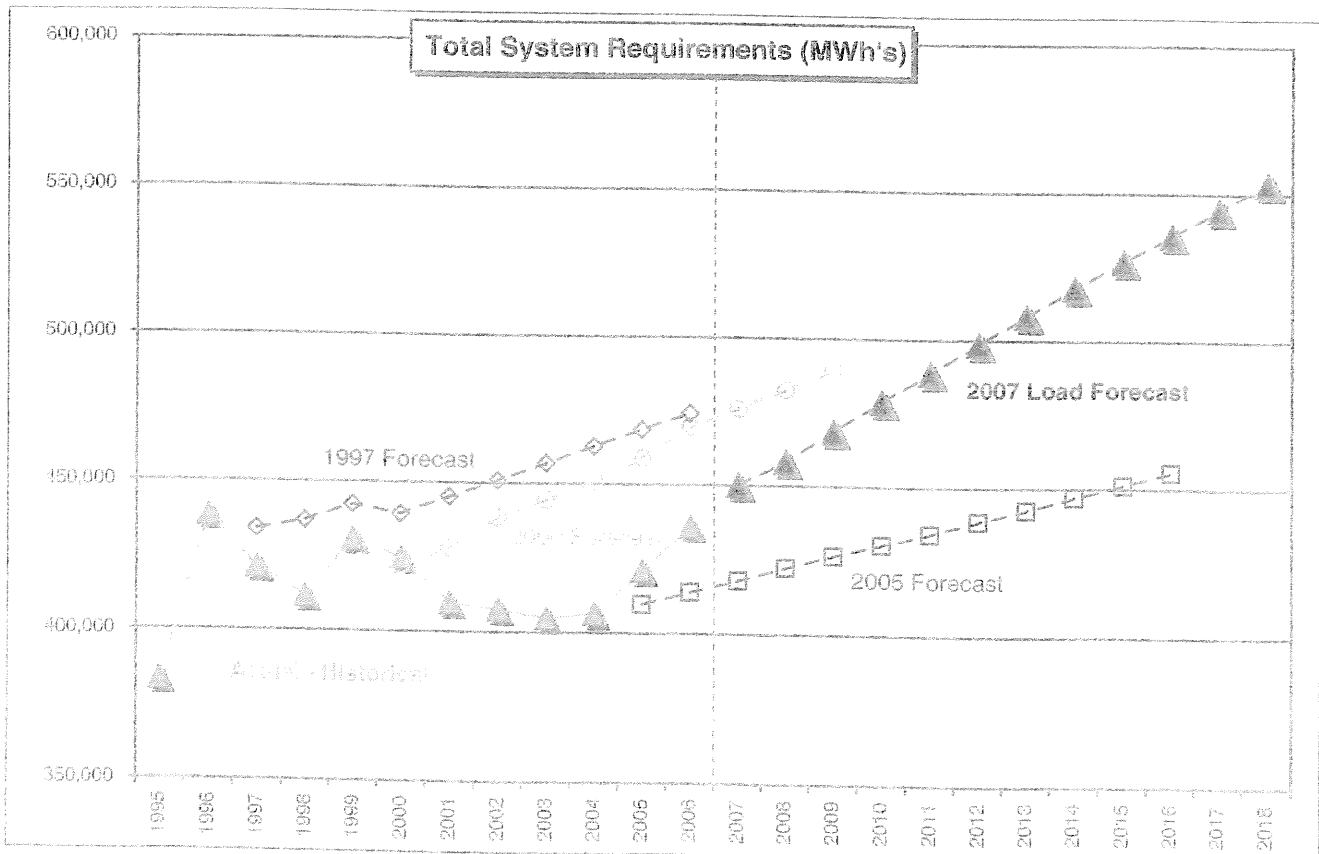
Barbara Johnson

David L

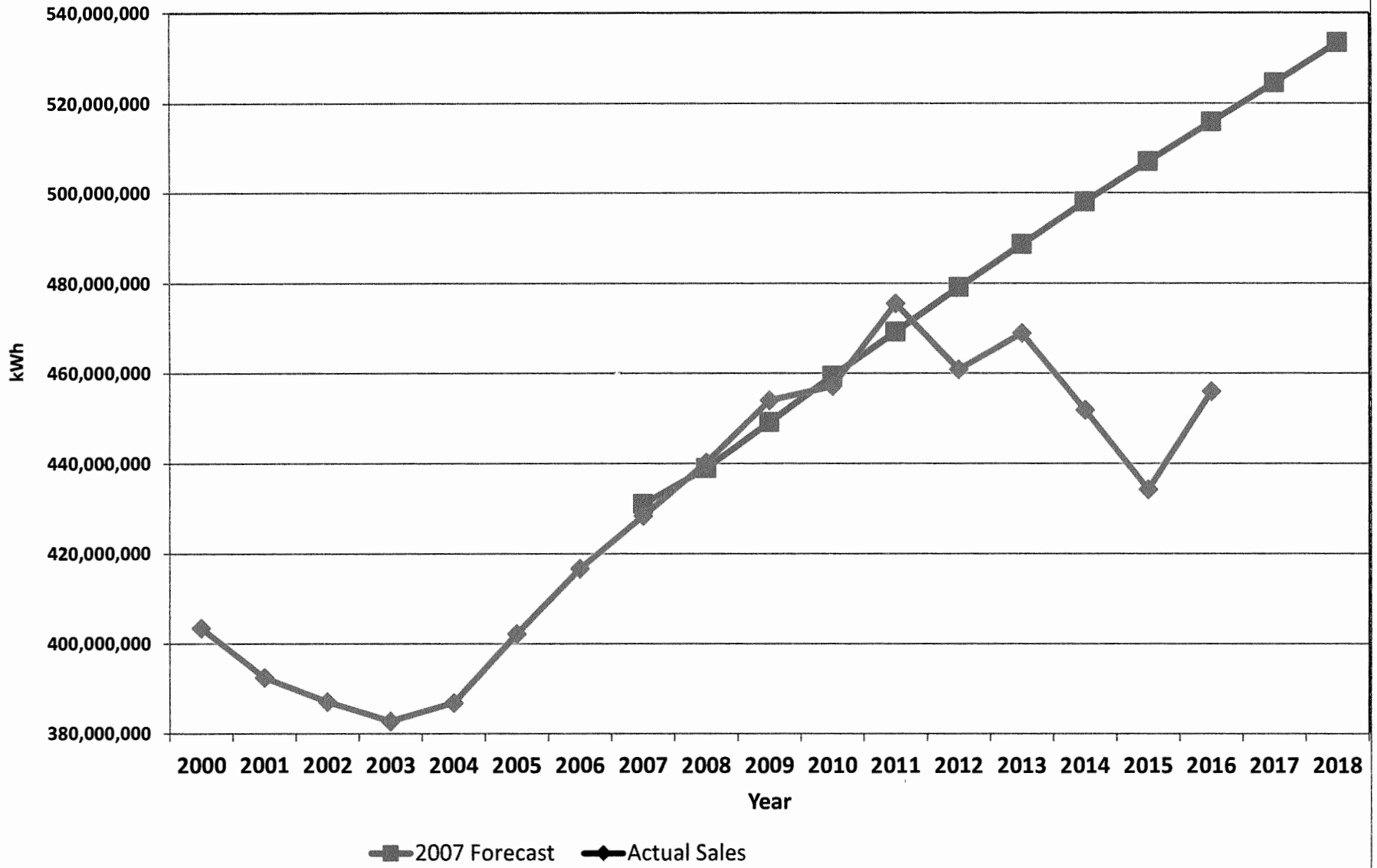
July 2007

**Table A5**  
**Total System Requirements**  
**History and Forecast (MWh)**

Year	Total Sales	Internal Use	System Losses	% Losses	Total System Requirements	Coincident Peak Demand (MW)	Annual Load Factor
1995	362,581	866	19,794	5.16%	382,521	97,100	45.1%
1996	406,915	926	30,602	6.99%	435,411	113,500	44.0%
1997	398,015	890	22,124	5.25%	419,001	102,199	47.0%
1998	386,892	1,008	23,507	5.71%	409,397	121,140	38.8%
1999	414,482	1,044	15,298	3.55%	429,140	98,681	49.8%
2000	403,464	1,030	20,058	4.72%	422,396	93,520	51.7%
2001	392,424	960	16,250	3.97%	405,214	96,050	48.7%
2002	387,062	946	19,599	4.81%	406,607	92,065	50.5%
2003	382,740	857	21,331	5.27%	403,660	94,150	49.1%
2004	386,834	820	18,864	4.64%	407,794	100,378	46.1%
2005	402,184	823	17,990	4.27%	423,971	99,518	48.3%
2006	416,658	827	18,514	4.25%	437,321	105,214	47.3%
2007	431,009	857	18,418	4.09%	450,284	110,000	46.7%
2008	438,957	870	18,350	4.01%	458,177	112,000	46.6%
2009	449,195	875	18,353	3.92%	468,423	114,000	46.9%
2010	459,385	880	18,430	3.85%	478,695	116,000	47.1%
2011	469,176	885	18,568	3.80%	488,629	118,000	47.3%
2012	479,099	890	18,701	3.75%	498,690	120,000	47.3%
2013	488,581	895	18,806	3.70%	508,283	122,000	47.6%
2014	498,058	900	18,902	3.65%	517,860	124,000	47.7%
2015	506,993	905	18,967	3.60%	526,865	126,000	47.7%
2016	515,843	910	19,020	3.55%	535,773	128,000	47.7%
2017	524,540	915	19,058	3.50%	544,513	130,000	47.8%
2018	533,487	920	19,096	3.45%	553,503	132,000	47.7%



# Annual Energy Sales 2010 - 2018 W 2007 Forecast

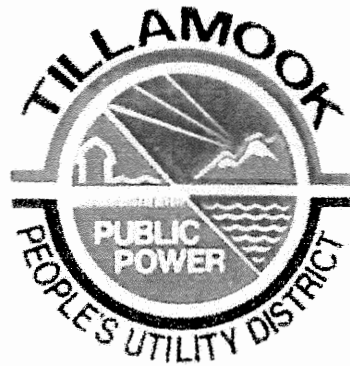


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# Tillamook People's Utility District

## *Load Forecast*

2012 - 2023



Prepared by

Jim Martin  
Shirley Scott  
Barbara Johnson

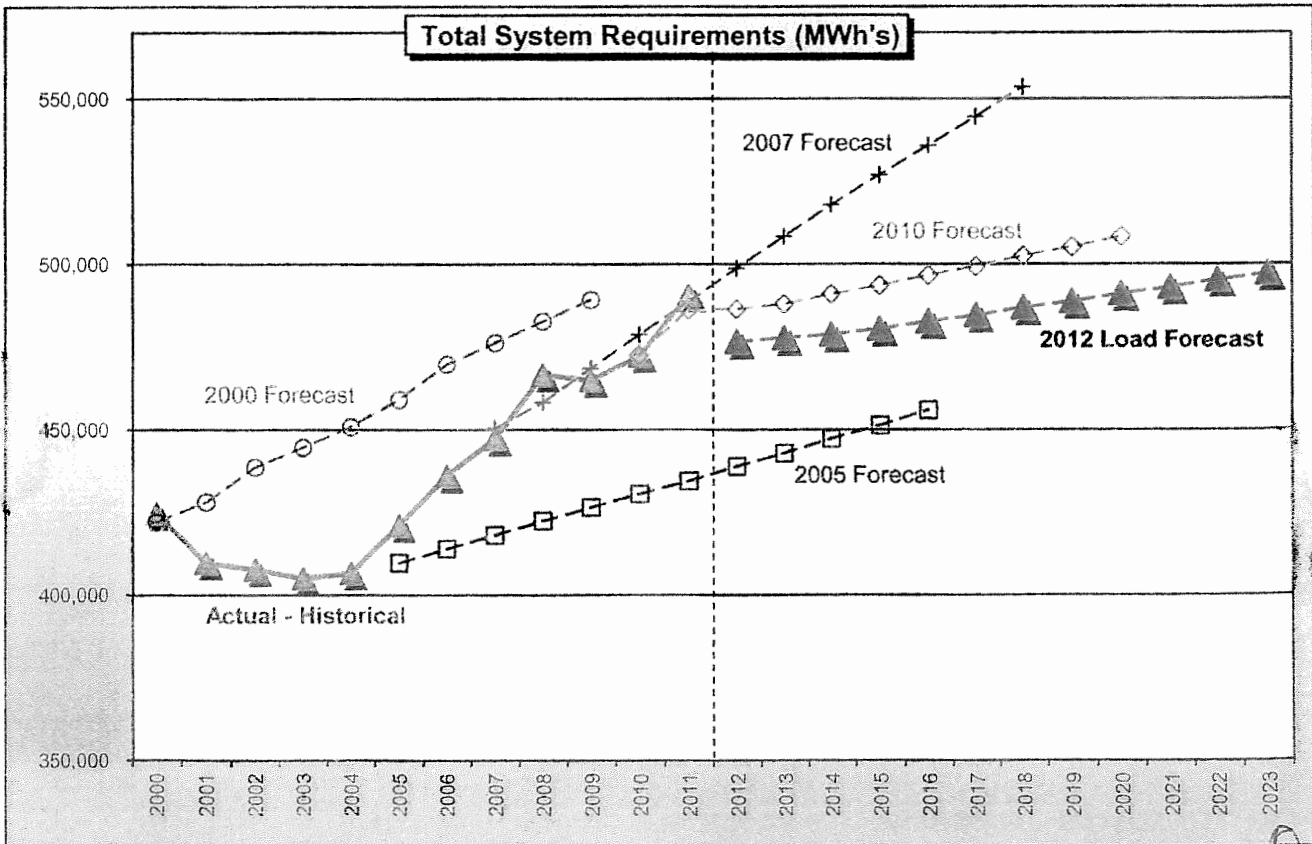
June 2012

David 3



**Table A5  
Total System Requirements  
History and Forecast (MWh's)**

Year	Total Sales	Internal Use	System Losses	% Losses	Total System Requirements	Coincident Peak Demand (kW)	Annual Load Factor
2000	403,464	1,030	20,058	4.72%	424,552	93,520	51.7%
2001	392,424	960	16,250	3.97%	409,635	96,050	48.7%
2002	387,062	946	19,599	4.81%	407,607	92,065	50.5%
2003	382,740	857	21,331	5.27%	404,929	94,150	49.1%
2004	386,834	820	18,864	4.64%	406,518	100,378	46.1%
2005	402,184	823	17,990	4.27%	420,997	99,518	48.3%
2006	416,658	827	18,514	4.25%	435,999	105,214	47.3%
2007	428,316	869	17,932	4.01%	447,117	108,700	47.0%
2008	440,203	875	25,278	5.42%	466,357	119,530	44.4%
2009	453,997	843	9,875	2.12%	464,714	130,846	40.5%
2010	457,084	764	14,299	3.03%	472,147	110,556	48.8%
2011	475,451	848	14,205	2.90%	490,504	116,735	48.0%
2012	458,306	934	17,211	3.61%	476,451	116,000	46.8%
2013	459,581	920	17,100	3.58%	477,601	116,500	46.8%
2014	460,907	925	16,832	3.52%	478,663	117,000	46.7%
2015	462,897	930	16,574	3.45%	480,401	117,500	46.7%
2016	465,323	935	16,411	3.40%	482,669	118,000	46.6%
2017	467,367	940	16,232	3.35%	484,539	118,500	46.7%
2018	469,809	945	16,065	3.30%	486,819	119,000	46.7%
2019	471,879	950	15,883	3.25%	488,712	119,500	46.7%
2020	474,345	955	15,712	3.20%	491,012	120,000	46.6%
2021	476,456	960	15,528	3.15%	492,944	120,500	46.7%
2022	478,907	965	15,352	3.10%	495,224	121,000	46.7%
2023	480,990	970	15,162	3.05%	497,122	121,500	46.7%



**TILLAMOOK PEOPLE'S UTILITY DISTRICT  
Resolution No. 12-06-01  
Adoption of Tillamook PUD Load Forecast**

**WHEREAS**, the Tillamook People's Utility District staff has developed a Load Forecast, dated June 2012, in accordance with Rural Utilities Service (RUS) and other applicable criteria; and

**WHEREAS**, the District desires to approve and adopt said Load Forecast.

**NOW, THEREFORE, BE IT RESOLVED** that the Board of Directors of Tillamook People's Utility District hereby approves and adopts said Load Forecast, dated June 2012.

ADOPTED this 12<sup>th</sup> day of June, 2012

TILLAMOOK PEOPLE'S UTILITY DISTRICT

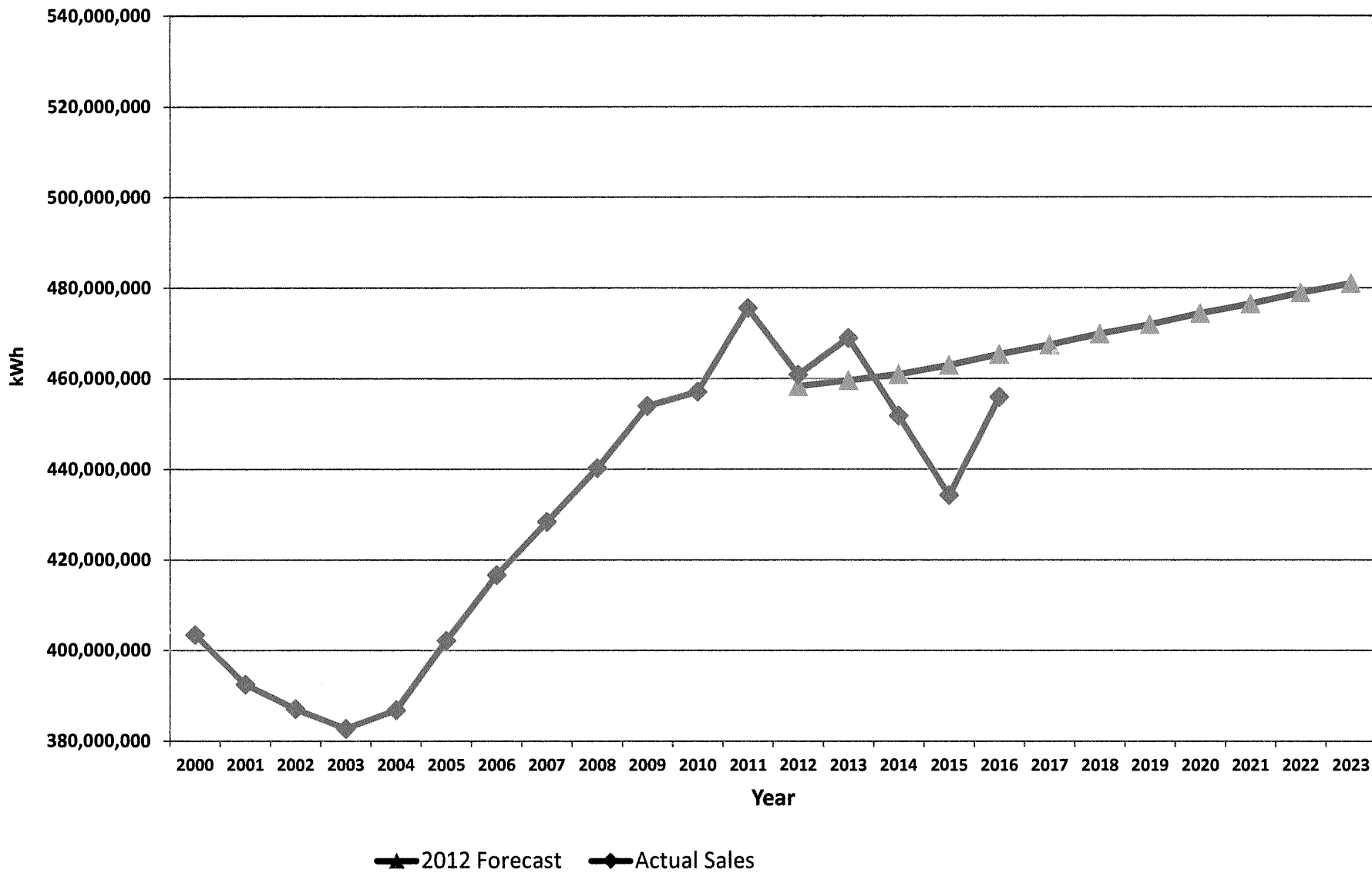
\_\_\_\_\_  
Barbara Trout, President

ATTEST:

\_\_\_\_\_  
Ed Jenkins, Secretary

David B

# Annual Energy Sales 2000 - 2023 W 2012 Forecast



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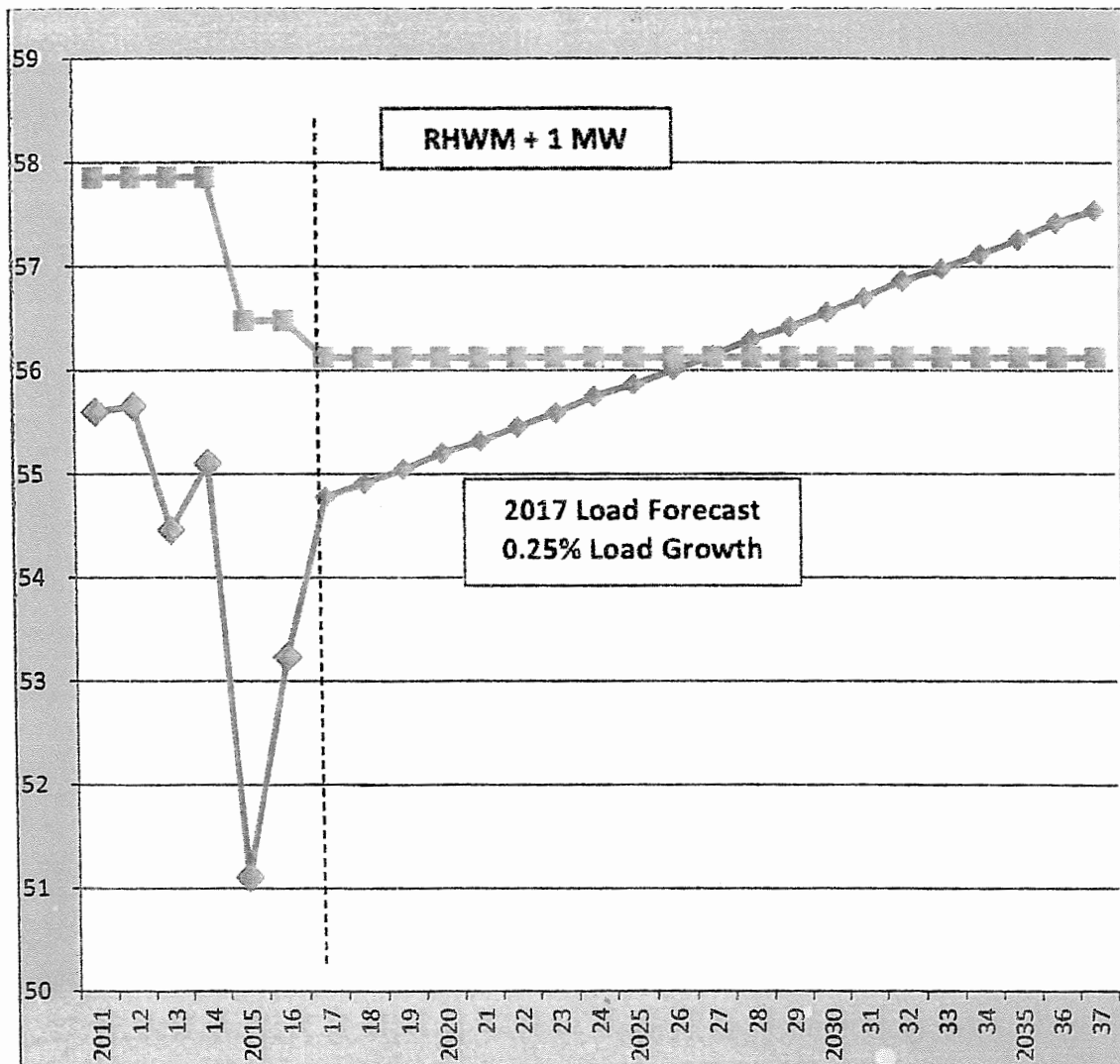


# Finance Department Report to the Board of Directors January 2017

## 2017 Load Forecast with BPA:

We met with Shelley Egerdahl from BPA to go over our 2017 Load Forecast. We updated them in regards to our system. The forecast is similar to last year's with an annual Load Growth of 0.25% for the 20 years.

The graph below shows our 2017 Load Forecast with the Rate period High Water Mark plus 1 Megawatt.



David Y

# Finance Department Board Report - January 2016

## Flood Insurance

At last months board meeting, we said we would look into adding flood insurance. As was pointed out in an email correspondence, the annual premium is \$2,449, and has up to \$10 million in coverage with deductibles as high as 2% or \$500,000.

We are ready to recommend adding flood insurance at this time.

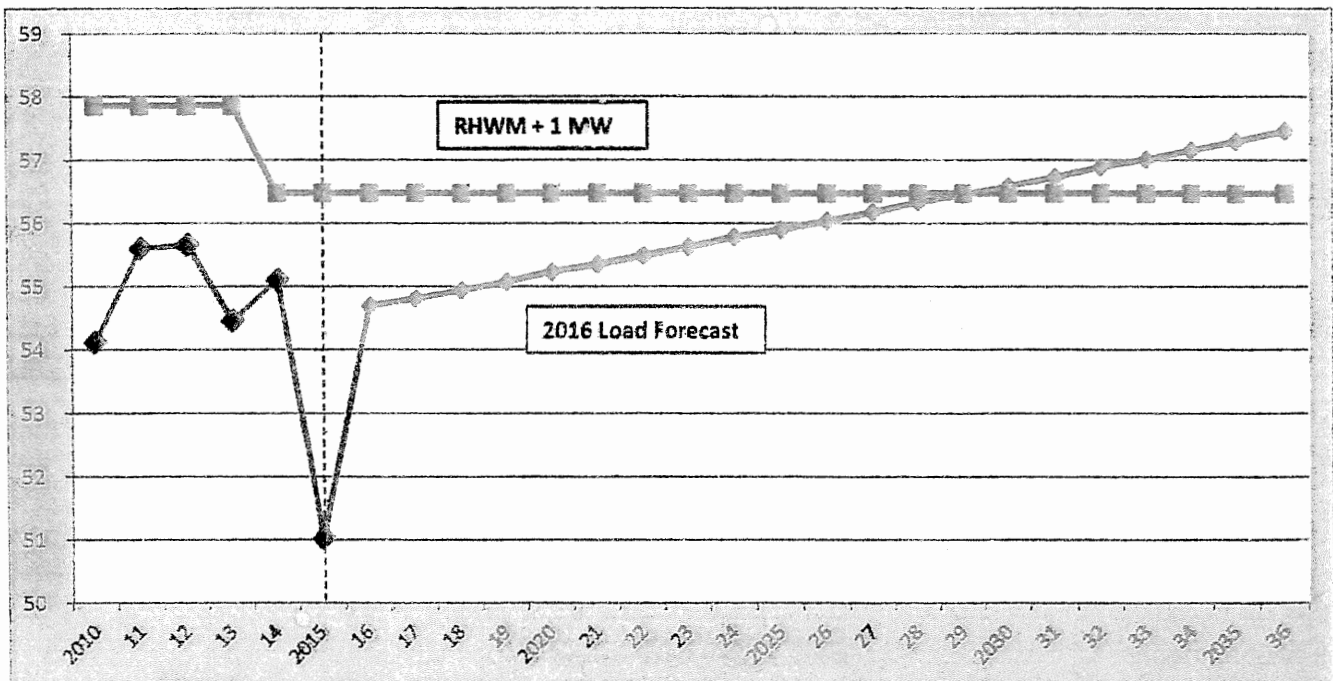
### Action Item - Add Flood Insurance

We recommend adding flood insurance with an annual premium of \$2,449.

## 2016 Load Forecast with BPA

We met with Shelley Egerdahl from BPA to go over our 2016 Load Forecast. We updated them in regards to our new contract with the TCCA Boiler. The forecast is similar to last years with an annual Load Growth of 0.25%. Although our rate of growth is low, BPA says that most utilities they deal with have flat or negative growth rates.

The graph below shows our 2016 Load Forecast with the Rate period High Water Mark plus 1 Megawatt.



## Top Ten Customers - 2015

We hope to have it ready to hand it out at the board meeting.

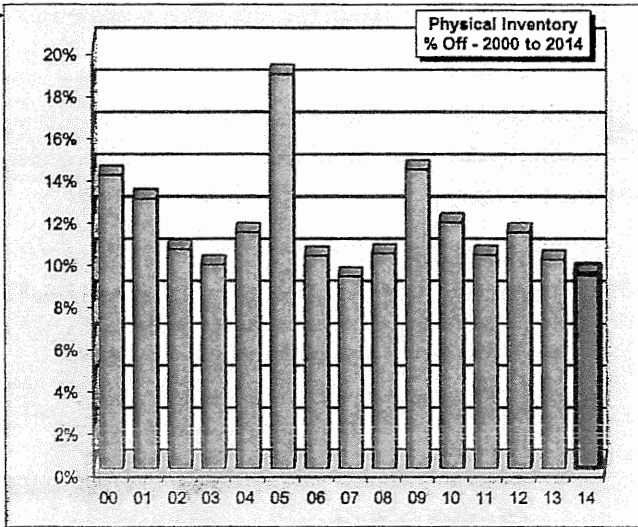
David Y

# Finance Department Board Report - January 2015

## Physical Inventory Adjustment

The inventory was counted on December 1st. The results show that we were off just under 9%.

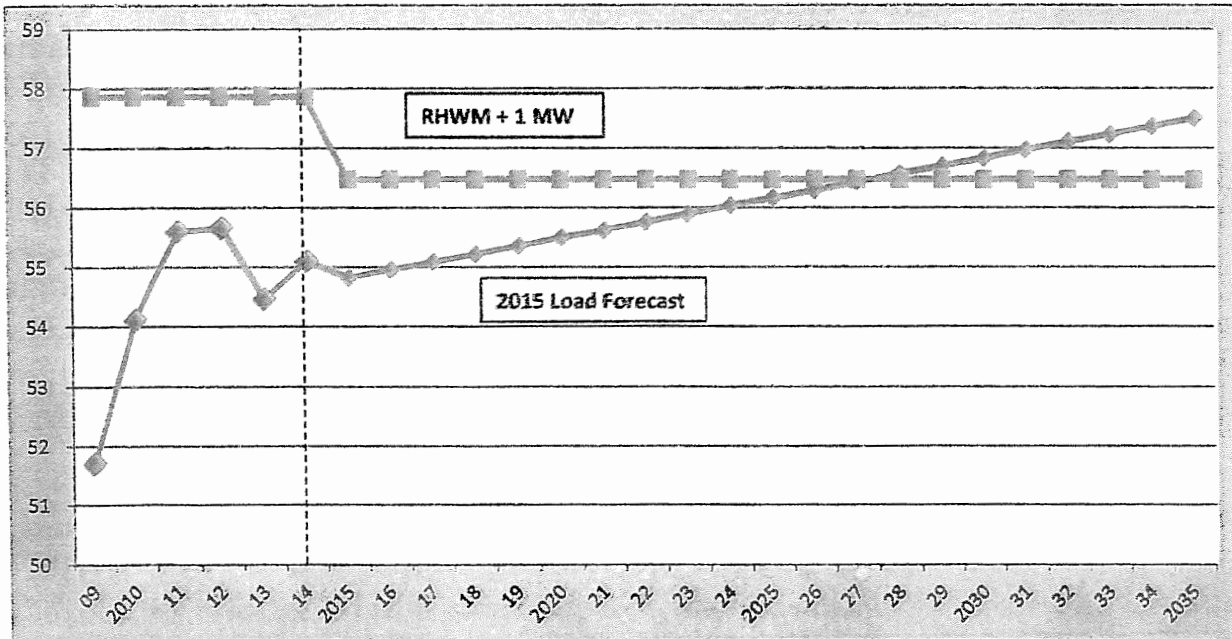
	Absolute		% Net	Materials	(Graph)
	Value Off	Net Off	Off	Issued	% Off
Oct '00	74,504	(21,081)	3.6%	584,387	12.75%
Oct '01	76,158	(4,394)	0.6%	736,129	10.35%
Nov '02	74,755	(18,805)	2.4%	777,643	9.61%
Oct '03	47,955	(11,326)	2.6%	429,970	11.15%
Oct '04	79,899	(41,316)	9.6%	428,596	18.64%
Sep '05	52,148	(20,018)	3.9%	519,814	10.03%
Oct '06	104,193	(28,423)	2.5%	1,149,810	9.06%
Nov '07	101,090	(39,664)	4.0%	995,351	10.16%
Sep '08	116,364	(56,639)	6.9%	823,682	14.13%
Sep '09	92,476	(53,322)	6.7%	796,684	11.61%
Oct '10	84,914	(32,581)	3.9%	842,818	10.08%
Oct '11	74,869	(26,138)	3.9%	671,782	11.14%
Oct '12	78,545	(5,561)	0.7%	796,593	9.86%
Oct '13	49,789	(7,239)	1.3%	542,320	9.18%
Nov '14	66,203	(3,507)	0.5%	738,310	8.97%



## 2015 Load Forecast with BPA

We met with Shelley Egerdahl and Claire Hobson from BPA to go over our 2015 Load Forecast. It was very similar to last years with an annual Load Growth of 0.25%. Although our rate of growth is low, they pointed out that most utilities they deal with have flat or negative growth rates.

The graph below shows our 2015 Load Forecast with the Rate period High Water Mark plus 1 Megawatt.



## Top Ten Customers - 2014

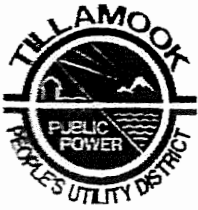
We'll hand it out at the board meeting.

David 4

## Cheryl, from Hudson Insurance

No, not Jake, from State Farm. Cheryl Spelman, from Hudson Ins. will be here to meet with the Board.





**Tillamook People's Utility District  
 Agenda for November 18, 2014  
 Regular Board Meeting**

- 4:00 p.m. – Executive Session
- 6:00 p.m. – Regular Board Meeting
- Presentations by the Public:

Presentations will be limited to five minutes per person or group unless prior arrangements for additional time have been requested through the general manager's office.

- Approval of Minutes (Voice Vote) Pgs. 1-6
  - October 21, 2014 Board Workshop
  - October 21, 2014 Regular Board Meeting
- Presentation by Kearns & West
- Department Reports

<b>General Manager</b>	Pgs. <b>ACTION ITEM(S):</b> None
<b>Human Resources</b>	Pgs. 7 <b>Action Item(s):</b> None
<b>Public Relations</b>	Pgs. 8-14 <b>ACTION ITEM(S):</b> Approve an Energy Efficiency Loan
<b>Power Services</b>	Pgs. 15-25 <b>ACTION ITEM(S):</b> Approve Resolution No. 14-11-08 "A Resolution Amending the 4-Year Construction Work Plan"
<b>Finance</b>	Pgs. 26-31 <b>ACTION ITEM(S):</b> None
<b>Information Technology</b>	Pgs. 32-33 <b>ACTION ITEM(S):</b> None
<b>Customer Services</b>	Pgs. 34-36 <b>Action Item(s):</b> Approve Write-offs \$603.92

- Approval of October 2014 Accounts Payables (Voice Vote)
- Items from the Board:

*David G*





# Public Relations Department Report to the Board of Directors November 2014

## Advertising, Articles and Other Press – October 2014

<b>Newspaper</b>	<b>Radio</b>	<b>Ruralite</b>
Public Power Week	Teach Your Kids the ABC's of Electrical Safety	Local Interest – Artist Turns Eye Toward Halloween (Taylor Peak); Fairview Grange Haunted House Raises Money to Offset Building Operating Expenses
Use Generators Safely	NIXLE	Manager's Letter – Celebrate Public Power Week
What To Do When the Lights Go Out	Public Power	Are You Prepared for Outages?
Public Power – Proud of our History	Heat Pump Water Heater Program	
Fall Home Improvement Guide	Fall-Winter Energy-Savings Tips	
	Winter Preparedness	

### FY 2016-17 Rate Period High Water Mark

The Bonneville Power Administration has announced the completion of the Rate Period High Water Mark Process for the FY 2016-17 rate period.

After the comment period and additional review, BPA increased the Tier 1 System Firm Critical Output (T1SFCO) for the rate period by 38 aMW from its initial RHWM computations. This is still an overall reduction of the total system, which in turn lowers the amount of power that Tillamook PUD is eligible to purchase at Tier 1 rates.

- Tillamook PUD's FY 2016-17 RHWM is 55.482 aMW.
- Our current forecast shows a total retail load in 2016 of 54.832, and 2017, 54.989.

Using the current forecast and today's assumptions, this illustrates no above- RHWM load during the FY 2016-17 rate period.

### Promotional /Department Activities

- Celebrated Public Power Week, October 6 – 10, featuring public power historical display, cookies and cider – gave away more than 450 CFLs
- Participated in a training webinar for the new website

- LOC – OPUDA Lobby Day has been scheduled for April 9, 2015. The Romains booked a room in the Capitol through the lunch hour that day. Danelle Romain is seeking feedback from each board on holding the April OPUDA meeting on Friday, April 10.
- Tillamook City Council Meeting
  - The Council received a petition from Andy Neal and other neighborhood property owners to close the walk-through access behind the YMCA. (Garbage and late-night parties have been issues.) Because it is necessary for the PUD's continued access to the high-voltage line that runs along the west property line of Liberty Elementary and the YMCA, Tillamook PUD provided input regarding our need to maintain access to the area. We do not object to a gate at the location, but suggested the gate be a minimum of 10 feet wide, be able to swing to its full opening and have provisions for a PUD padlock. The property owners will work with us to verify we continue to have access.
  - Council appointed the City Manager or his designee to participate in the ad hoc committee for the Tillamook to Oceanside Transmission Line.
  - The Council heard the Streetscapes Committee recommendation to not underground power on Second Street due to the additional costs to property owners, TURA and the City. The Council approved the recommendation, 5 – 1.
- Bob Lightfoot participated in the Nestucca Fire and Safety Fair.
- I met with Jack Mulder of TCCA to discuss future operating plans for the electric boiler at the Creamery. The 60,000 gallon propane tank should be installed and operational by the end of the year, and they are currently in the process of converting the two existing diesel boilers to propane. Their original goal was to displace the diesel boilers with the propane, and continue using them as back-up to the electric boiler. However, as the price of propane has dramatically decreased, they are exploring options that could include expanding the use of the propane boilers as the primary source, displacing at least a portion of the electric load on the boiler. I spoke to him about our contractual obligations to BPA and the potential negative consequences of the reduced load. We agreed to continue close communications as various alternatives are analyzed by both parties.
 

I have had a number of discussions with BPA and NRU staff regarding the potential for a demand response program and other potential scenarios for addressing the TCCA boiler load. Our plan is to move forward with a consultant to perform analytical work on potential options.
- Barbara and Dorene attended the PUD Dispatcher's meeting.
- Dave and Ryan attended BPA's Fall Utility Roundtable at Mid-State Electric.
- Attended OPUDA Annual Meeting in Springfield, hosted by Emerald PUD
- Staff participated in downtown Halloween trick-or-treating.

Tillamook PUD Transformer Loading

(In Megawatts)

Substation	Substation MW Thermal Rating (1)	Year	Transformer Loading By Month												Average MW Monthly Load
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Wilson River II	50.00	2011	35.84	37.45	31.42	34.56	30.11	22.42	20.62	20.38	32.59	28.21	31.62	36.05	30.11
	50.00	2012	34.94	34.19	34.28	30.03	26.28	27.84	20.90	20.95	24.22	27.87	31.53	32.70	28.81
	50.00	2013	35.71	33.06	33.12	28.27	29.08	20.76	20.09	20.93	21.59	28.51	34.11	40.03	28.77
	48.00	2014	33.41	40.72	31.77	27.94	22.66	20.96	19.47	27.70	20.22	21.59	33.56	36.14	28.01
	48.00	2015	33.95	30.36	31.27	28.42	24.00	21.08	20.06	15.25	19.02	19.59	31.21	32.65	25.57
	48.00	2016	35.14	28.85	27.40	27.49	21.41	22.92	19.63	20.00	20.14	21.68	25.15	34.34	25.35
	48.00	2017	35.09	29.30	28.82	25.86	23.62	20.55	18.78	18.87	19.08				24.44

Average Monthly Load Decrease 2011 - 2016	4.76
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David 7

## Tillamook PUD Transformer Loading (In Megawatts)

Substation	Substation MW Winter Thermal Rating (1)	Transformer Loading By Month														Average MW Monthly Load	Avg MW Monthly Load as a % of 2014 Thermal Rating	Avg MW Monthly Load as a % of 2011 Thermal Rating	Highest MW Monthly Load	Highest Load Month as a % of 2014 Thermal Rating	Highest Load Month as a % of 2011 Thermal Rating
		Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec							
Beaver	8.00	2011	3.65	4.00	3.35	3.16	2.81	2.17	1.79	1.92	1.97	2.76	3.43	3.76	2.90	36%	36%	4.00	50%	50%	
	8.00	2012	3.44	3.32	3.54	3.14	2.79	2.16	1.85	1.95	3.44	4.11	3.03	4.60	3.11	39%	39%	4.60	58%	58%	
	8.00	2013	4.24	3.17	3.22	2.68	2.88	1.85	1.88	1.86	2.05	3.04	3.65	3.93	2.87	36%	36%	4.24	53%	53%	
	8.00	2014	3.61	4.22	3.34	2.65	2.09	1.82	1.80	1.87	1.80	2.12	3.52	3.74	2.72	34%	34%	4.22	53%	53%	
	8.00	2015	3.63	3.18	3.30	2.99	2.38	1.83	1.87	1.84	2.23	2.22	3.71	3.59	2.73	34%	34%	3.71	46%	46%	
	8.00	2016	3.88	3.11	3.06	2.70	2.17	1.93	1.83	1.99	2.36	2.50	2.85	3.97	2.70	34%	34%	3.97	50%	50%	
	8.00	2017	4.60	4.45	4.41	3.81	3.37	2.48	2.28	2.37	2.63				3.38	42%	42%	4.60	58%	58%	
		Average													2.91	36%	36%	4.19	52%	52%	
Garibaldi	31.40	2011	11.95	12.98	10.22	10.19	8.13	5.50	7.53	6.10	6.71	7.97	11.04	11.29	9.13	34%	29%	12.98	48%	41%	
	31.40	2012	11.55	10.78	10.79	9.69	7.75	6.84	6.96	5.78	6.71	8.04	10.48	10.57	8.83	33%	28%	11.55	43%	37%	
	31.40	2013	11.81	10.63	10.20	8.65	8.03	5.83	6.57	5.95	6.51	8.07	11.16	14.04	8.95	33%	29%	14.04	52%	45%	
	27.00	2014	11.71	12.99	10.58	8.12	6.70	5.48	6.89	5.92	8.28	8.40	12.32	12.36	9.15	34%	29%	12.99	48%	41%	
	27.00	2015	12.20	9.73	9.62	8.47	6.83	5.64	7.18	6.23	6.46	7.05	13.39	12.68	8.79	33%	28%	13.39	50%	43%	
	27.00	2016	13.48	10.35	12.20	8.51	7.20	6.42	7.82	6.34	6.93	7.66	9.13	13.86	9.16	34%	29%	13.86	51%	44%	
	27.00	2017	15.54	12.08	11.59	9.81	8.43	6.62	7.59	6.55	7.33				9.50	35%	30%	15.54	58%	49%	
		Average													9.07	34%	29%	13.48	50%	43%	
Mohler	27.70	2011	5.49	5.83	4.58	4.43	3.64	3.75	3.07	2.57	3.08	7.64	10.39	5.23	4.98	18%	18%	10.39	38%	38%	
	27.70	2012	4.80	4.71	4.92	4.22	3.41	3.09	2.91	2.60	2.98	6.71	4.46	4.89	4.14	15%	15%	6.71	24%	24%	
	27.70	2013	5.34	4.60	4.57	3.89	3.66	2.51	2.81	2.81	2.82	7.71	7.98	6.49	4.60	17%	17%	7.98	29%	29%	
	27.70	2014	5.07	5.86	4.74	3.67	2.85	6.20	2.77	7.44	7.88	7.27	10.18	5.51	5.79	21%	21%	10.18	37%	37%	
	27.70	2015	5.40	4.39	4.48	3.98	2.93	2.46	2.79	2.35	3.06	2.68	4.65	4.85	3.67	13%	13%	5.40	19%	19%	
	27.70	2016	5.07	3.75	3.65	2.93	5.33	6.55	2.60	2.18	3.95	5.14	3.23	4.70	4.09	15%	15%	6.55	24%	24%	
	27.70	2017	5.36	4.25	12.00	3.43	2.88	4.56	3.10	2.15	3.82				4.62	17%	17%	12.00	43%	43%	
		Average													4.55	16%	16%	8.46	31%	31%	
Hebo	28.10	2011	3.13	3.15	2.77	2.76	2.34	1.87	1.88	1.54	1.70	2.31	2.85	3.24	2.46	9%	9%	3.24	12%	12%	
	28.10	2012	2.88	2.92	2.96	2.59	2.31	1.83	1.56	1.64	7.84	9.50	2.66	11.50	4.18	15%	15%	11.50	41%	41%	
	28.10	2013	2.99	2.69	2.72	2.39	2.31	1.66	6.16	1.54	7.05	8.15	3.00	4.83	3.79	13%	13%	8.15	29%	29%	
	28.10	2014	2.86	3.37	2.65	2.27	1.86	1.62	1.50	1.49	1.58	1.76	2.80	2.96	2.23	8%	8%	3.37	12%	12%	
	28.10	2015	2.91	6.89	2.72	2.52	1.96	5.29	1.54	1.45	1.85	3.37	2.96	2.89	3.03	11%	11%	6.89	25%	25%	
	28.10	2016	3.11	2.57	2.52	2.24	1.75	1.64	1.51	6.94	6.15	2.12	2.29	3.32	3.01	11%	11%	6.94	25%	25%	
	28.10	2017	3.54	14.51	14.04	3.34	6.41	0.36	0.38	5.76	0.72				5.45	19%	19%	14.51	52%	52%	
		Average													3.45	12%	12%	7.80	28%	28%	
Nestucca	28.10	2011	12.95	13.55	9.97	9.14	8.24	5.42	6.97	5.82	7.15	6.77	10.45	11.28	8.98	32%	32%	13.55	48%	48%	
	28.10	2012	11.11	10.78	10.36	9.90	7.99	5.78	6.03	6.00	7.11	7.59	10.68	11.94	8.77	31%	31%	11.94	42%	42%	
	28.10	2013	12.52	10.33	10.74	8.70	8.20	4.90	6.98	6.00	5.98	7.72	10.53	15.62	9.02	32%	32%	15.62	56%	56%	
	28.10	2014	11.84	14.34	11.44	7.56	6.43	5.18	6.63	6.22	6.00	6.30	12.49	13.42	8.99	32%	32%	14.34	51%	51%	
	28.10	2015	12.88	9.37	9.64	8.47	7.26	7.05	7.07	6.01	7.21	6.74	12.67	12.96	8.94	32%	32%	12.96	46%	46%	
	28.10	2016	15.95	9.45	9.19	7.42	6.93	5.47	7.06	6.52	6.79	6.95	9.29	14.51	8.79	31%	31%	15.95	57%	57%	
	28.10	2017	16.84	10.96	8.69	8.19	6.87	6.53	7.44	6.12	6.63				8.70	31%	31%	16.84	60%	60%	
		Average													8.88	32%	32%	14.46	51%	51%	
Trask River	46.80	2011	9.61	9.76	8.53	8.73	7.80	6.37	6.34	5.21	6.47	6.18	8.37	10.25	7.80	22%	17%	10.25	28%	22%	
	46.80	2012	9.82	9.73	10.00	8.46	7.84	6.64	5.28	5.69	6.82	7.74	8.91	8.69	7.97	22%	17%	10.00	28%	21%	
	46.80	2013	9.59	9.00	9.50	8.01	8.28	5.78	5.46	5.63	5.75	7.82	9.35	10.79	7.91	22%	17%	10.79	30%	23%	
	36.00	2014	9.40	9.66	8.93	7.97	6.89	6.27	5.46	4.91	4.69	6.11	8.81	8.03	7.26	20%	16%	9.66	27%	21%	
	36.00	2015	8.63	7.61	8.05	7.15	6.02	4.76	5.31	4.56	6.05	5.48	9.28	9.53	6.87	19%	15%	9.53	26%	20%	
	36.00	2016	10.31	8.06	8.30	7.91	9.30	5.64	5.37	5.75	7.53	7.33	7.98	10.52	7.83	22%	17%	10.52	29%	22%	
	36.00	2017	11.12	9.72	8.75	9.06	8.33	6.59	5.47	5.73	6.54				7.92	22%	17%	11.12	31%	24%	
		Average													7.65	21%	16%	10.27	29%	22%	

David S

Tillamook PUD Transformer Loading

(In Megawatts)

Substation	Substation MW Winter Thermal Rating (1)	Year	Transformer Loading By Month												Average MW Monthly Load	Avg MW Monthly Load as a % of 2014 Thermal Rating	Avg MW Monthly Load as a % of 2011 Thermal Rating	Highest MW Monthly Load	Highest Load Month as a % of 2014 Thermal Rating	Highest Load Month as a % of 2011 Thermal Rating
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec						
Wilson River I	45.00	2011	19.27	18.78	17.17	37.88	20.30	14.47	11.01	30.89	15.16	15.26	16.12	18.91	19.60	54%	44%	37.88	105%	84%
	45.00	2012	18.16	17.90	18.73	16.68	15.00	31.52	11.13	30.06	12.69	14.33	15.99	16.70	18.24	51%	41%	31.52	88%	70%
	45.00	2013	18.17	18.08	17.00	15.04	13.12	11.03	10.04	12.02	11.36	15.74	17.08	18.55	14.77	41%	33%	18.55	52%	41%
	36.00	2014	15.87	20.13	14.91	13.27	11.38	10.67	10.35	28.60	10.28	11.44	17.62	18.39	15.24	42%	34%	28.60	79%	64%
	36.00	2015	15.61	16.11	16.36	15.63	11.71	11.09	12.48	11.26	15.04	12.65	17.26	18.07	14.44	40%	32%	18.07	50%	40%
	36.00	2016	15.95	16.45	15.59	13.79	12.18	12.58	12.07	12.02	17.24	20.62	15.54	20.21	15.35	43%	34%	20.62	57%	46%
	36.00	2017	21.24	18.65	19.11	19.53	15.11	15.90	11.71	11.80	13.01				16.23	45%	36%	21.24	59%	47%
		Average													16.27	45%	36%	25.21	70%	56%
Wilson River II	50.00	2011	35.84	37.45	31.42	34.56	30.11	22.42	20.62	20.38	32.59	28.21	31.62	36.05	30.11	63%	60%	37.45	78%	75%
	50.00	2012	34.94	34.19	34.28	30.03	26.28	27.84	20.90	20.95	24.22	27.87	31.53	32.70	28.81	60%	58%	34.94	73%	70%
	50.00	2013	35.71	33.06	33.12	28.27	29.08	20.76	20.09	20.93	21.59	28.51	34.11	40.03	28.77	60%	58%	40.03	83%	80%
	48.00	2014	33.41	40.72	31.77	27.94	22.66	20.96	19.47	27.70	20.22	21.59	33.56	36.14	28.01	58%	56%	40.72	85%	81%
	48.00	2015	33.95	30.36	31.27	28.42	24.00	21.08	20.06	15.25	19.02	19.59	31.21	32.65	25.57	53%	51%	33.95	71%	68%
	48.00	2016	35.14	28.85	27.40	27.49	21.41	22.92	19.63	20.00	20.14	21.68	25.15	34.34	25.35	53%	51%	35.14	73%	70%
	48.00	2017	35.09	29.30	28.82	25.86	23.62	20.55	18.78	18.87	19.08				24.44	51%	49%	35.09	73%	70%
		Average													27.29	57%	55%	36.76	77%	74%
Nehalem	28.00	2011	12.30	12.73	9.41	9.07	7.53	4.85	6.50	6.27	6.36	6.55	9.77	10.76	8.51	30%	30%	12.73	45%	45%
	28.00	2012	10.51	10.03	9.62	9.45	6.80	5.97	6.29	5.17	5.92	7.23	10.32	11.92	8.27	30%	30%	11.92	43%	43%
	28.00	2013	11.86	9.89	9.95	7.98	7.70	4.47	5.90	4.95	5.64	7.16	9.35	14.41	8.27	30%	30%	14.41	51%	51%
	28.00	2014	10.49	13.77	10.06	7.15	5.66	4.62	6.21	4.54	4.36	5.72	12.42	12.26	8.11	29%	29%	13.77	49%	49%
	28.00	2015	12.53	7.71	8.35	8.02	6.37	4.97	6.66	4.68	5.90	5.70	11.63	12.36	7.91	28%	28%	12.53	45%	45%
	28.00	2016	14.01	8.74	8.33	6.64	6.07	4.65	6.54	5.22	5.77	6.23	8.72	13.22	7.85	28%	28%	14.01	50%	50%
	28.00	2017	14.04	10.83	10.09	8.47	6.91	5.24	6.05	4.64	5.25				7.95	28%	28%	14.04	50%	50%
		Average													8.12	29%	29%	13.34	48%	48%
South Fork	2.00	2011	0.96	0.29	0.29	0.27	0.27	0.20	0.18	0.17	0.20	0.25	0.27	0.31	0.30	15%	15%	0.96	48%	48%
	2.00	2012	0.31	0.30	0.31	0.26	0.23	0.19	0.18	0.19	0.19	0.21	0.24	0.28	0.24	12%	12%	0.31	16%	16%
	2.00	2013	0.31	0.32	0.26	0.25	0.24	0.17	0.18	0.16	0.17	0.24	0.28	0.33	0.24	12%	12%	0.33	16%	16%
	2.00	2014	0.29	0.34	0.24	0.23	0.19	0.12	0.00	0.47	0.24	0.29	0.40	0.42	0.27	13%	13%	0.47	24%	24%
	2.00	2015	0.38	0.65	0.30	0.28	0.24	0.71	0.26	0.24	0.43	0.25	0.35	0.37	0.37	19%	19%	0.71	36%	36%
	2.00	2016	0.35	0.30	0.32	0.28	0.23	0.24	0.24	0.24	0.24	0.27	0.29	0.36	0.28	14%	14%	0.36	18%	18%
	2.00	2017	0.41	0.36	0.34	0.31	0.28	0.24	0.24	0.25	0.25				0.30	15%	15%	0.41	21%	21%
		Average													0.29	14%	14%	0.51	25%	25%
Monthly Total Load	295.10	2011	115.15	118.52	97.71	120.19	91.17	67.02	65.89	80.87	81.39	83.90	104.31	111.08	94.77	35%	32%	120.19	45%	41%
	295.10	2012	107.52	104.66	105.51	94.42	80.40	91.86	63.09	80.03	77.92	93.33	98.30	113.79	92.57	34%	31%	113.79	42%	39%
	295.10	2013	112.54	101.77	101.28	85.86	83.50	58.96	66.07	61.85	68.92	94.16	106.49	129.02	89.20	33%	30%	129.02	48%	44%
	268.90	2014	104.55	125.40	98.66	80.83	66.71	62.94	61.08	89.16	65.33	71.00	114.12	113.23	87.75	33%	30%	125.40	47%	42%
	268.90	2015	108.12	96.00	94.09	85.93	69.70	64.88	65.22	53.87	67.25	65.73	107.11	109.95	82.32	31%	28%	109.95	41%	37%
	268.90	2016	117.25	91.63	90.56	79.91	72.57	68.04	64.67	67.20	77.10	80.50	84.47	119.01	84.41	31%	29%	119.01	44%	40%
	268.90	2017	127.78	115.11	117.84	91.81	82.21	69.07	63.04	64.24	65.26				88.48	33%	30%	127.78	48%	43%
		Average													88.50	33%	30%	120.73	45%	41%

(1) Winter thermal ratings lowered in the August 2014 monthly board report

David 8



## Tillamook People's Utility District Agenda for January 17, 2017 Regular Board Meeting

- 3:30 p.m. – Board Workshop
- 4:30 p.m. – Executive Session
- 6:00 p.m. – Regular Board Meeting
  
- **Presentations by the Public: The Tillamook Bay Habitat and Estuary Improvement District**  
Presentations will be limited to five minutes per person or group unless prior arrangements for additional time have been requested through the general manager's office.
  
- **Oath of Office for Newly Elected Directors – Hewitt and Olson**
  
- **Installation of New Officers:**
  - Barbara Trout, President**
  - Doug Olson, Vice President**
  - Ed Jenkins, Treasurer**
  - Ken Phillips, Secretary**
  - Harry Hewitt, Director**
  
- **Approval of Minutes (Voice Vote) Pgs. 1-9**
  - December 13, 2016 Regular Board Meeting
  - December 16, 2016 Special Board Meeting
  
- **Department Reports**

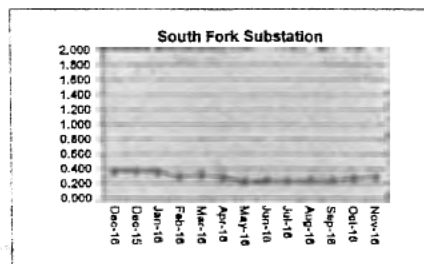
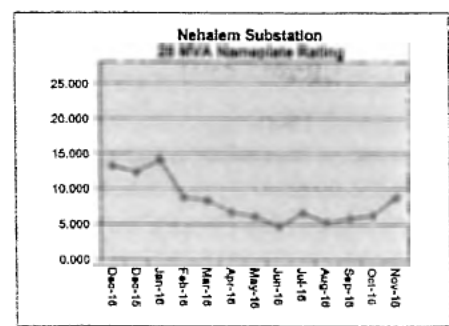
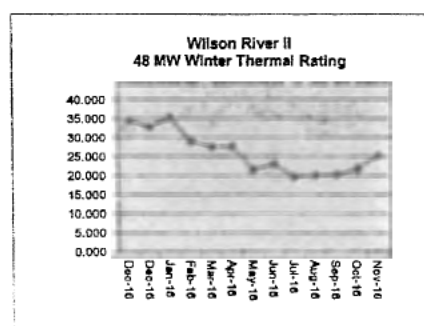
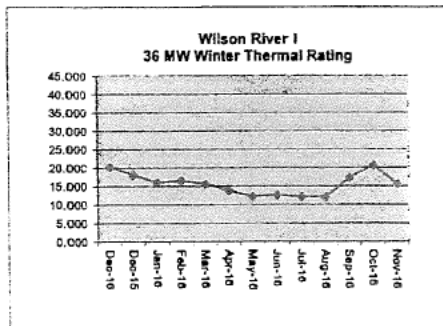
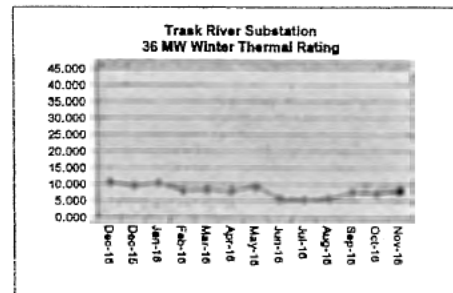
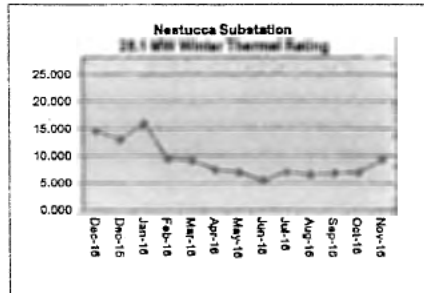
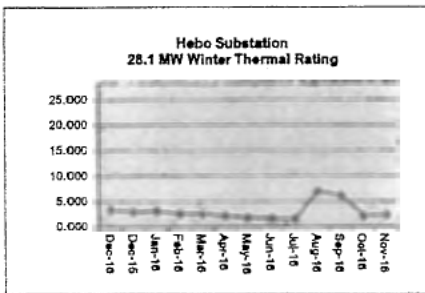
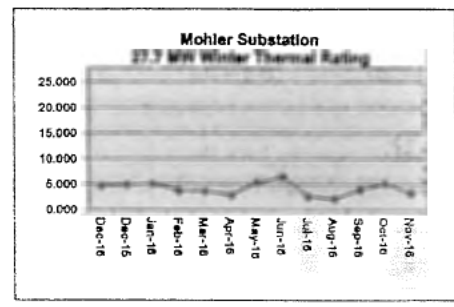
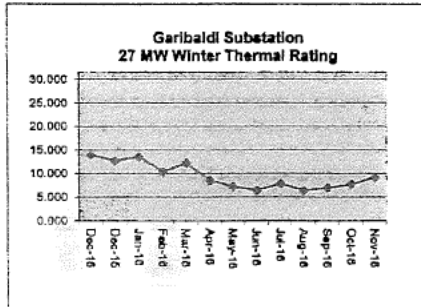
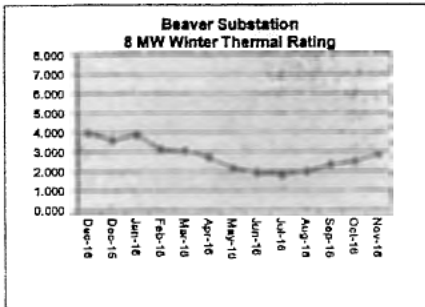
<b>General Manager</b>	Pgs. 10 <b>ACTION ITEM(S):</b> Approve Resolution No. 17-01-01 "A Resolution Authorizing Appointment of Representative to the Board of the Tillamook Intergovernmental Development Entity"
<b>Customer Services</b>	Pgs. 11-13 <b>ACTION ITEM(S):</b> Approve Write-offs \$1,730.76
<b>Human Resources</b>	Pgs. 14 <b>ACTION ITEM(S):</b> None
<b>Public Relations</b>	Pgs. 15-19 <b>ACTION ITEM(S):</b> Authorize the General Manager to execute a wheeling suspension agreement with the Port of Tillamook Bay
<b>Operations</b>	Pgs. 20-21 <b>ACTION ITEM(S):</b> None
<b>Engineering</b>	Pgs. 22-25 <b>ACTION ITEM(S):</b> None
<b>Finance</b>	Pgs. 26-30 <b>ACTION ITEM(S):</b> None
<b>Information Technology</b>	Pgs. 31-33 <b>ACTION ITEM(S):</b> None

- **Approval of December 2016 Accounts Payables (Voice Vote)**
- **Items from the Board:**

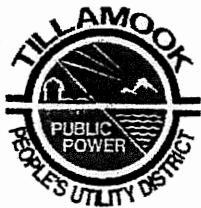
*David B*

### TRANSFORMER LOADING (In Megawatts)

	Dec-16	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16
Bvr 5/7	3.970	3.590	3.880	3.110	3.060	2.700	2.170	1.930	1.830	1.990	2.360	2.500	2.850
Grbd 15/25	13.860	12.680	13.480	10.350	12.200	8.510	7.200	6.420	7.820	6.340	6.930	7.660	9.130
Mhr 12/20	4.700	4.850	5.070	3.750	3.650	2.930	5.330	6.550	2.600	2.180	3.950	5.140	3.230
Hbo 12/20	3.320	2.890	3.110	2.570	2.520	2.240	1.750	1.640	1.510	6.940	6.150	2.120	2.290
Nstca 12/20	14.510	12.960	15.950	9.450	9.190	7.420	6.930	5.470	7.060	8.520	6.790	6.950	9.290
Trskrv 20/33	10.520	9.530	10.310	8.060	8.300	7.910	9.300	5.640	5.370	5.750	7.530	7.330	7.980
Wilson River I - 24/40	20.210	18.070	15.950	16.450	15.590	13.790	12.180	12.580	12.070	12.020	17.240	20.620	15.540
Wilson River II - 24/46	34.350	32.650	35.140	28.950	27.400	27.490	21.410	22.920	19.630	20.000	20.140	21.680	25.150
Nhlm 15/25	13.220	12.360	14.010	8.740	8.330	6.640	6.070	4.650	6.540	5.220	5.770	6.230	8.720
SoFork 5/7	0.361	0.366	0.353	0.298	0.319	0.283	0.227	0.238	0.240	0.241	0.243	0.266	0.292
<b>System Total</b>	<b>119.021</b>	<b>109.946</b>	<b>117.253</b>	<b>91.628</b>	<b>90.559</b>	<b>79.913</b>	<b>72.567</b>	<b>68.038</b>	<b>64.670</b>	<b>67.201</b>	<b>77.103</b>	<b>80.496</b>	<b>84.472</b>



David



**Tillamook People's Utility District  
 Agenda for January 12, 2016  
 Regular Board Meeting**

▪ **6:00 p.m. – Regular Board Meeting**

▪ **Presentations by the Public:**

Presentations will be limited to five minutes per person or group unless prior arrangements for additional time have been requested through the general manager's office.

- **Installation of New Officers:** Harry Hewitt, President  
 Barbara Trout, Vice President  
 Doug Olson, Treasurer  
 Ed Jenkins, Secretary  
 Ken Phillips, Director

▪ **Approval of Minutes** (Voice Vote) Pgs. 1-7

- December 8, 2015 Budget Workshop
- December 15, 2015 Regular Board Meeting

▪ **Department Reports**

<b>General Manager</b>	Pgs. <b>ACTION ITEM(S):</b> None
<b>Information Technology</b>	Pgs. 8-9 <b>ACTION ITEM(S):</b> None
<b>Customer Services</b>	Pgs. 10-12 <b>Action Item(s):</b> Approve Write-offs \$ 486.54
<b>Human Resources</b>	Pgs. 13 <b>Action Item(s):</b> None
<b>Public Relations</b>	Pgs. 14-19 <b>ACTION ITEM(S):</b> None
<b>Power Services</b>	Pgs. 20-24 <b>ACTION ITEM(S):</b> None
<b>Finance</b>	Pgs. 25-28 <b>ACTION ITEM(S):</b> None

▪ **Approval of December 2015 Accounts Payables** (Voice Vote)

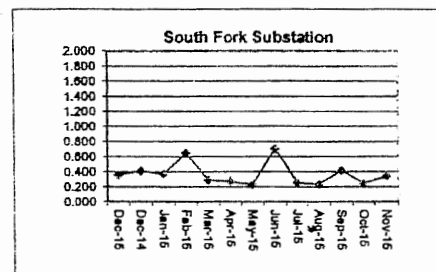
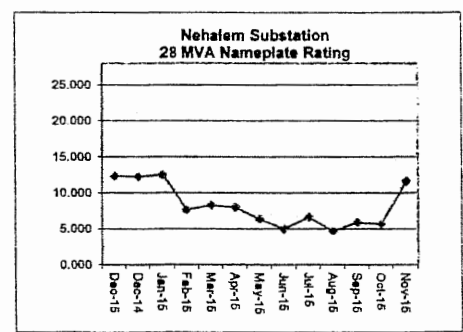
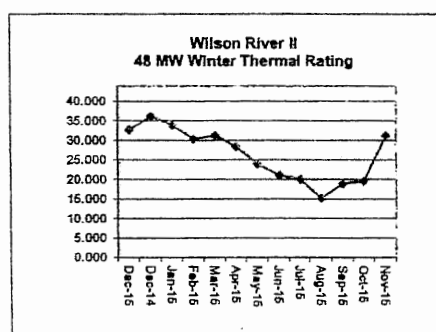
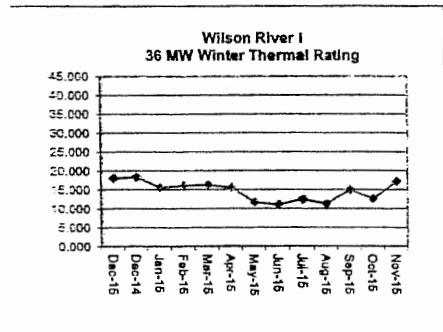
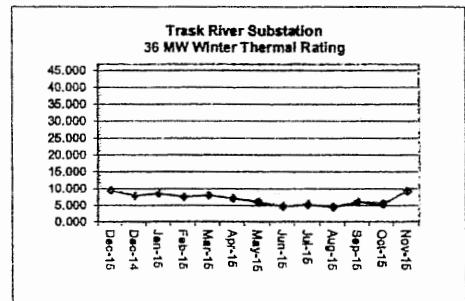
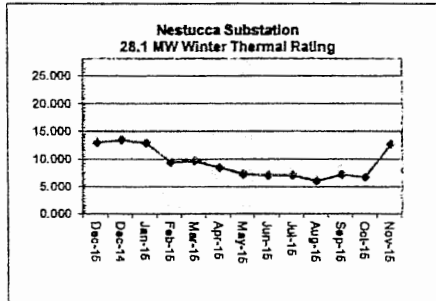
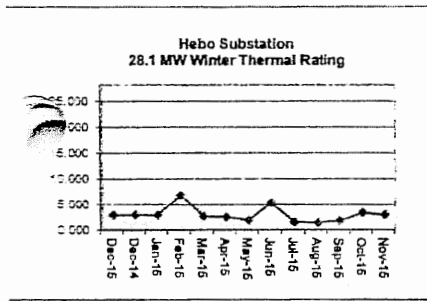
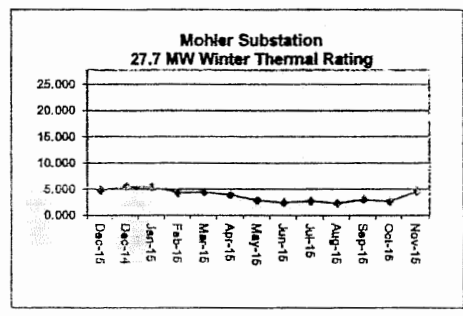
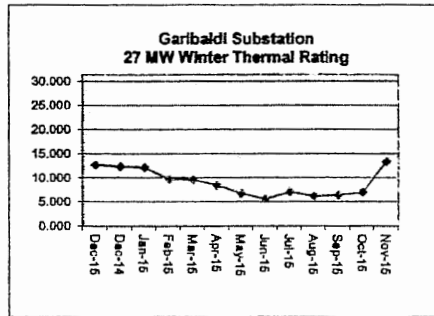
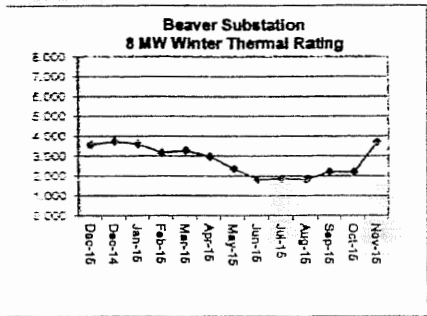
▪ **Items from the Board:**

David



### TRANSFORMER LOADING (In Megawatts)

	Dec-15	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15
Srbd 15/25	3.580	3.740	3.630	3.180	3.300	2.990	2.380	1.830	1.870	1.840	2.230	2.220	3.710
Hhr 12/20	12.680	12.360	12.200	9.730	9.620	8.470	6.830	5.640	7.180	6.230	6.460	7.050	13.390
Hbo 12/20	4.850	5.510	5.400	4.390	4.480	3.960	2.930	2.460	2.790	2.350	3.060	2.680	4.650
Hstca 12/20	2.890	2.960	2.910	6.890	2.720	2.520	1.960	5.290	1.540	1.450	1.850	3.370	2.960
Hstca 12/20	12.960	13.420	12.880	9.370	9.840	8.470	7.260	7.050	7.070	6.010	7.210	6.740	12.670
Trskrv 20/33	9.530	8.030	8.630	7.610	8.050	7.150	6.020	4.760	5.310	4.560	6.050	5.480	9.280
Wilson River I - 24/40	18.070	18.390	15.610	16.110	16.360	15.630	11.710	11.090	12.480	11.260	15.040	12.650	17.260
Wilson River II - 24/46	32.650	36.140	33.950	30.360	31.270	28.420	24.000	21.080	20.060	15.250	19.020	19.560	31.210
Hhkm 15/25	12.360	12.260	12.530	7.710	8.350	8.020	6.370	4.970	6.660	4.680	5.900	5.700	11.630
SoFork 5/7	0.366	0.418	0.376	0.651	0.296	0.279	0.235	0.710	0.263	0.243	0.425	0.251	0.348
<b>System Total</b>	<b>109.946</b>	<b>113.228</b>	<b>108.116</b>	<b>96.001</b>	<b>94.086</b>	<b>85.929</b>	<b>69.695</b>	<b>64.880</b>	<b>65.223</b>	<b>53.873</b>	<b>67.245</b>	<b>65.731</b>	<b>107.108</b>



David



**Tillamook People's Utility District  
 Agenda for January 13, 2015 - Revised  
 Regular Board Meeting**

▪ **6:00 p.m. – Regular Board Meeting**

▪ **Presentations by the Public:**

Presentations will be limited to five minutes per person or group unless prior arrangements for additional time have been requested through the general manager's office.

▪ **Oath of Office for Newly Elected Directors – Jenkins, Phillips, and Trout**

- **Installation of New Officers:** Ken Phillips, President  
 Mary Hewitt, Vice President  
 Barbara Trout, Treasurer  
 Doug Olson, Secretary  
 Ed Jenkins, Director

▪ **Approval of Minutes (Voice Vote) Pgs. 1-6**

- December 9, 2014 Budget Workshop
- December 16, 2014 Regular Board Meeting

▪ **Presentation by Cheryl Spellman from Hudson Insurance**

▪ **Department Reports**

<b>General Manager</b>	Pgs. <b>ACTION ITEM(S): None</b>
<b>Information Technology</b>	Pgs. 7-8 <b>ACTION ITEM(S): None</b>
<b>Customer Services</b>	Pgs. 9-11 <b>Action Item(s): Approve Write-offs \$1,278.40</b>
<b>Human Resources</b>	Pgs. 12-13 <b>Action Item(s): None</b>
<b>Public Relations</b>	Pgs. 14-18 <b>ACTION ITEM(S): None</b>
<b>Power Services</b>	Pgs. 19-24 <b>ACTION ITEM(S): None</b>
<b>Finance</b>	Pgs. 25-28 <b>ACTION ITEM(S): None</b>

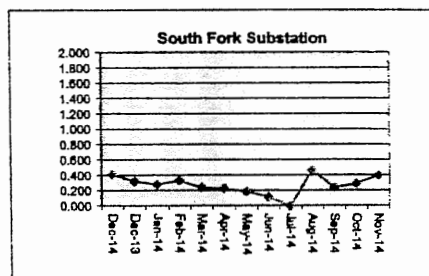
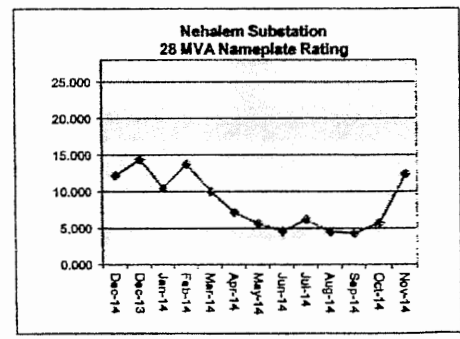
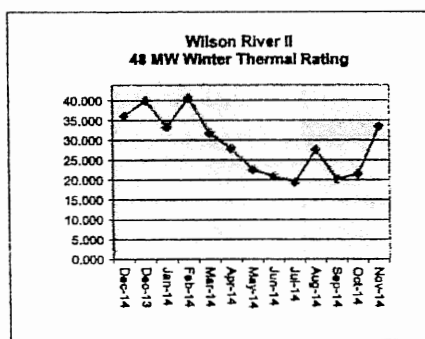
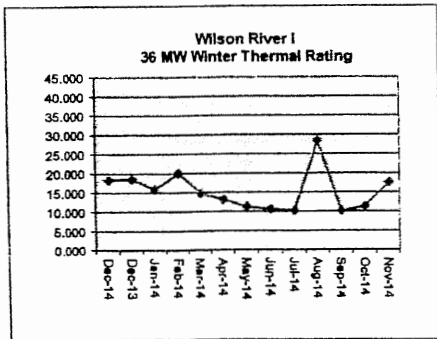
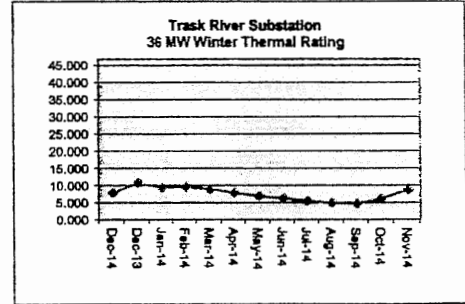
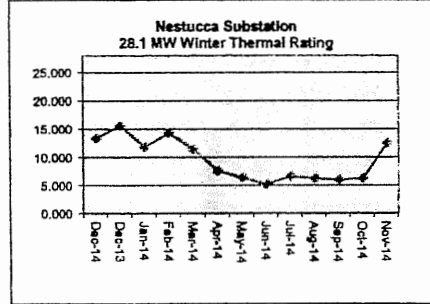
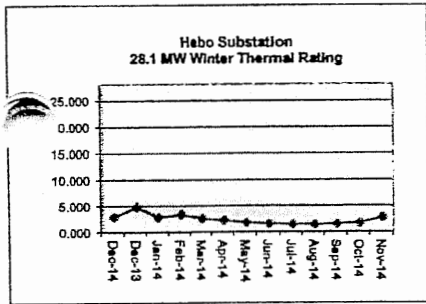
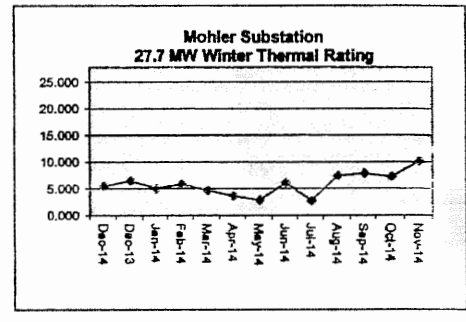
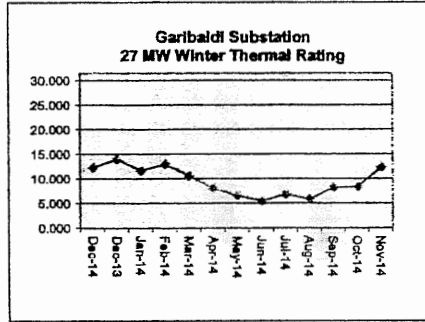
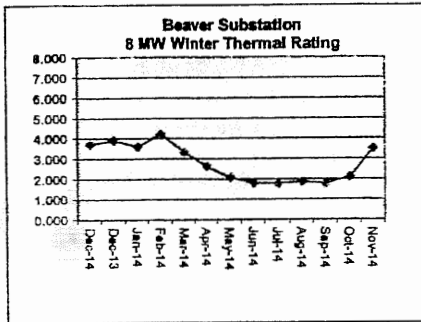
▪ **Approval of December 2014 Accounts Payables (Voice Vote)**

▪ **Items from the Board:**

David

### TRANSFORMER LOADING (In Megawatts)

	Dec-14	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14
Grbd 15/25	3.740	3.930	3.610	4.220	3.340	2.650	2.090	1.820	1.800	1.870	1.800	2.120	3.520
Mhr 12/20	12.360	14.040	11.710	12.990	10.580	8.120	6.700	5.480	6.890	5.920	6.280	8.400	12.320
Hbo 12/20	5.510	6.490	5.070	5.860	4.740	3.670	2.850	6.200	2.770	7.440	7.880	7.270	10.180
Nstca 12/20	2.960	4.830	2.860	3.370	2.650	2.270	1.860	1.620	1.500	1.490	1.580	1.760	2.800
Trskrv 20/33	13.420	15.620	11.840	14.340	11.440	7.560	6.430	5.180	6.630	6.220	6.000	6.300	12.490
Wilson River I - 24/40	8.030	10.790	9.400	9.660	8.930	7.970	6.890	6.270	5.460	4.910	4.660	6.110	8.810
Wilson River II - 24/40	18.390	18.550	15.870	20.130	14.910	13.270	11.380	10.670	10.350	28.600	10.280	11.440	17.620
Nhlm 15/25	36.140	40.030	33.410	40.720	31.770	27.940	22.660	20.960	19.470	27.700	20.220	21.590	33.580
SoFork 5/7	12.260	14.410	10.490	13.770	10.060	7.150	5.660	4.620	6.210	4.540	4.360	5.720	12.420
SoFork 5/7	0.418	0.328	0.285	0.336	0.244	0.231	0.192	0.121	0.000	0.470	0.241	0.262	0.402
<b>System Total</b>	<b>113.228</b>	<b>129.018</b>	<b>104.545</b>	<b>125.396</b>	<b>98.664</b>	<b>80.831</b>	<b>66.712</b>	<b>62.941</b>	<b>61.060</b>	<b>89.160</b>	<b>65.331</b>	<b>71.002</b>	<b>114.122</b>



David B



**Tillamook People's Utility District**  
**Agenda for January 14, 2014**  
**Regular Board Meeting**

- 4:00 p.m. - Convene Executive Session
- A workshop to discuss the 4-Year Construction Work Plan will be held immediately following the Executive Session
- 6:00 p.m. - Convene Regular Board Meeting

▪ **Presentations by the Public:**

Presentations will be limited to five minutes per person or group unless prior arrangements for additional time have been requested through the general manager's office.

- **Installation of New Officers:** Edwin Jenkins, President  
 Ken Phillips, vice president  
 Harry Hewitt, Treasurer  
 Barbara Trout, Secretary  
 Doug Olson, Director

▪ **Approval of Minutes (Voice Vote) Pgs. 1-6**

- December 17, 2013 Executive Session
- December 17, 2013 Regular Board Meeting

▪ **Department Reports**

<b>General Manager</b>	Pgs. <b>Action Item(s):</b> None
<b>Human Resources</b>	Pgs. 7 <b>Action Item(s):</b> None
<b>Public Relations</b>	Pgs. 8-12 <b>ACTION ITEM(S):</b> None
<b>Power Services</b>	Pgs. 13-20 <b>ACTION ITEM(S):</b> Approve Resolution No. 14-01-01 "A Resolution Approving and Adopting the 2014 4-Year Construction Work Plan for Tillamook People's Utility District."
<b>Finance/IS</b>	Pgs. 21-25 <b>ACTION ITEM(S):</b> None
<b>Customer Services</b>	Pgs. 26-28 <b>Action Item(s):</b> Approve Write-offs \$2,611.03

▪ **Approval of December 2013 Accounts Payables (Voice Vote)**

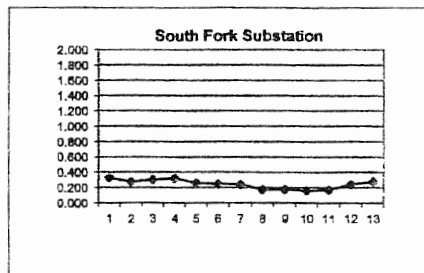
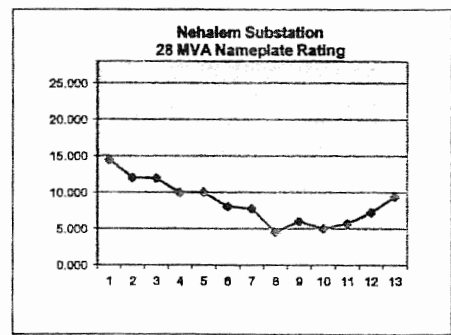
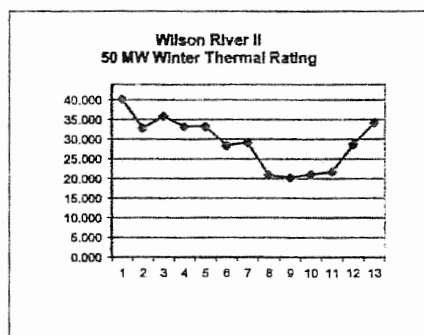
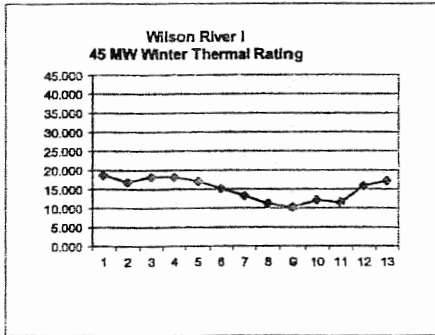
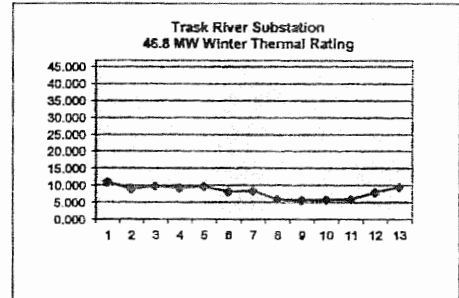
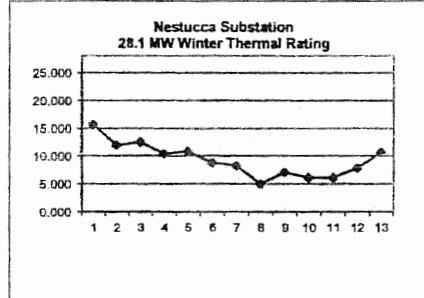
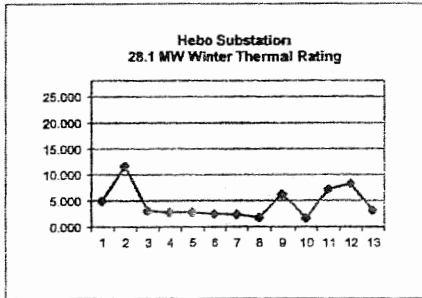
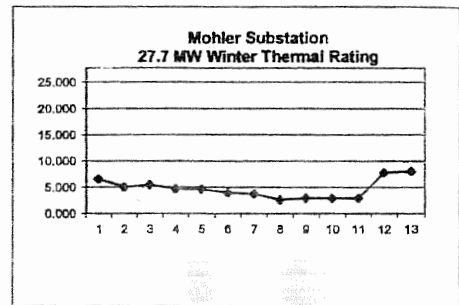
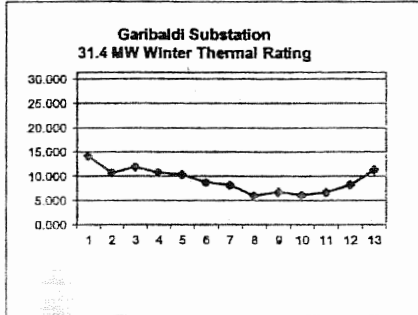
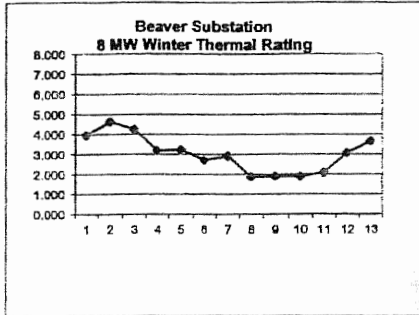
▪ **Items from the Board:**

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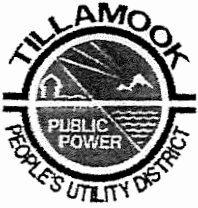
David B

**SUBSTATION LOADING (In Megawatts)**

	Dec-13	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13
<b>Bvr 5/7</b>	3.930	4.600	4.240	3.170	3.220	2.680	2.880	1.850	1.880	1.860	2.050	3.040	3.650
<b>Grbd 15/25</b>	14.040	10.570	11.810	10.630	10.200	8.650	8.030	5.830	6.570	5.950	6.510	8.070	11.160
<b>Mhr 12/20</b>	6.490	4.890	5.340	4.600	4.570	3.890	3.680	2.510	2.810	2.810	2.820	7.710	7.980
<b>Hbo 12/20</b>	4.830	11.500	2.990	2.690	2.720	2.390	2.310	1.660	8.160	1.540	7.050	8.150	3.000
<b>Nstca 12/20</b>	15.620	11.940	12.520	10.330	10.740	8.700	8.200	4.900	6.980	6.000	5.980	7.720	10.530
<b>Trskrv 20/33</b>	10.790	8.690	9.590	9.000	9.500	8.010	8.280	5.780	5.460	5.630	5.750	7.820	9.350
<b>Wilson River I - 24/40</b>	18.550	16.700	18.170	18.080	17.000	15.040	13.120	11.030	10.040	12.020	11.360	15.740	17.080
<b>Wilson River II - 24/46</b>	40.030	32.700	35.710	33.060	33.120	28.270	29.080	20.760	20.090	20.930	21.590	28.510	34.110
<b>Nhlm 15/25</b>	14.410	11.920	11.850	9.890	9.950	7.980	7.700	4.470	5.900	4.950	5.640	7.160	9.350
<b>SoFork 5/7</b>	0.328	0.275	0.305	0.319	0.282	0.247	0.240	0.172	0.176	0.161	0.171	0.239	0.276
<b>System Total</b>	<b>129.018</b>	<b>113.785</b>	<b>112.535</b>	<b>101.769</b>	<b>101.282</b>	<b>85.857</b>	<b>83.500</b>	<b>58.962</b>	<b>66.066</b>	<b>61.851</b>	<b>68.921</b>	<b>94.159</b>	<b>106.486</b>



David



**Tillamook People's Utility District  
 Agenda for February 12, 2013 - Revised  
 Regular Board Meeting**

- **3:30 p.m.** - Convene Board Workshop – Smart Hub Presentation
- **4:00 p.m.** - Convene Board Workshop – Oceanside Transmission Line
- **6:00 p.m.** - Convene Regular Board Meeting
- **Presentations by the Public:** None

Presentations will be limited to five minutes per person or group unless prior arrangements for additional time have been requested through the general manager's office.

- **Approval of Minutes (Voice Vote) Pgs. 1-6**
  - January 15, 2013 Board Workshop
  - January 15, 2013 Regular Board Meeting

▪ **Department Reports**

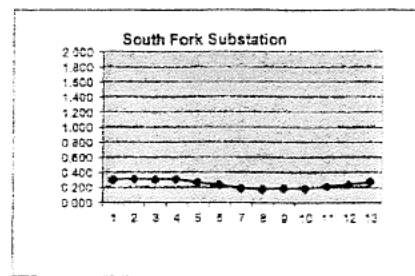
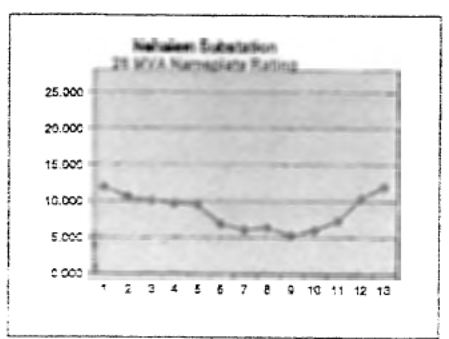
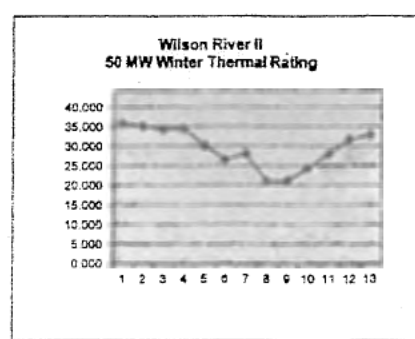
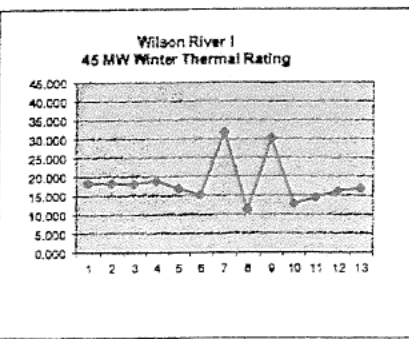
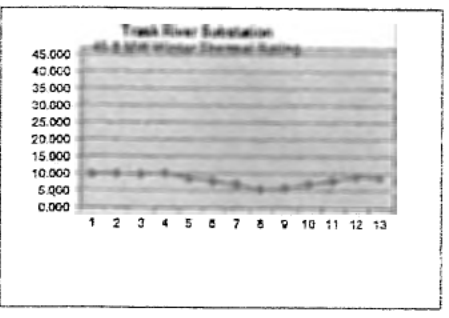
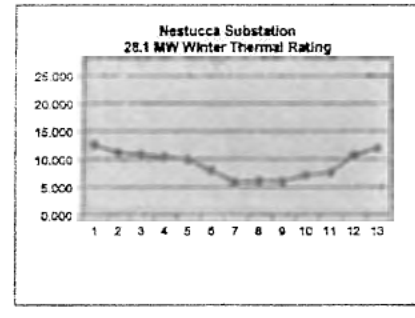
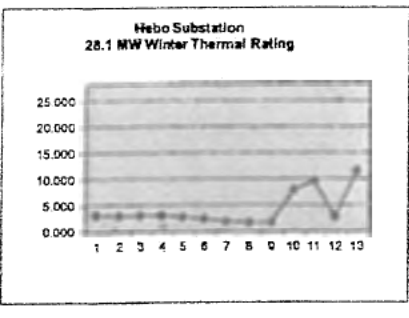
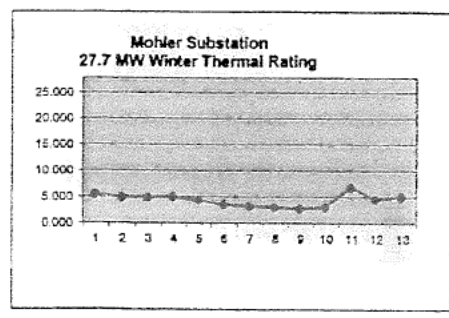
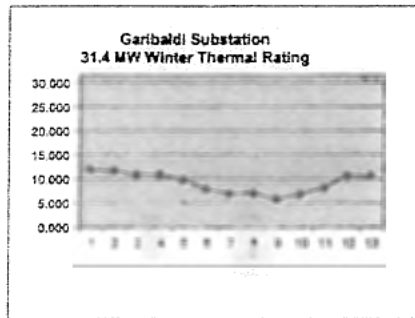
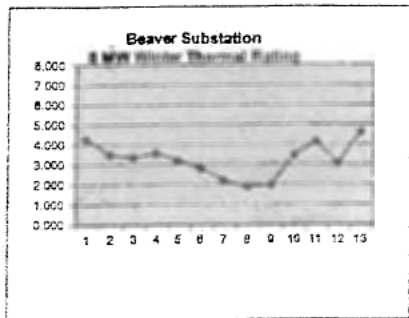
<b>General Manager</b>	Pgs. <b>Action Item(s):</b> None
<b>Power Services</b>	Pgs. 7 - 15 <b>ACTION ITEM(S):</b> Adopt a proposed transmission line route and direct staff to proceed with the Conditional Use Permit application with Tillamook County or director Staff to proceed with additional route analysis
<b>Human Resources</b>	Pgs. 16 - 17 <b>Action Item(s):</b> None
<b>Public Relations</b>	Pgs. 18 - 26 <b>ACTION ITEM(S):</b> None
<b>Finance/IS</b>	Pgs. 27 - 33 <b>ACTION ITEM(S):</b> Approve the transfer from the Rate Stabilization Fund
<b>Customer Services</b>	Pgs. 34 - 36 <b>Action Item(s):</b> Approve Write-offs \$2,110.37 (Voice Vote)

- **Approval of January 2013 Accounts Payables (Voice Vote)**
- **Items from the Board:**

*David B*

### SUBSTATION LOADING (In Megawatts)

	Jan-13	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12
Bvr 5/7	4.240	3.440	3.320	3.540	3.140	2.790	2.160	1.850	1.950	3.440	4.110	3.030	4.600
Grbd 15/25	11.810	11.550	10.780	10.790	9.690	7.750	6.840	6.960	5.780	6.710	8.040	10.480	10.570
Mhnr 12/20	5.340	4.800	4.710	4.920	4.220	3.410	3.090	2.910	2.600	2.980	6.710	4.460	4.890
Hbo 12/20	2.990	2.880	2.920	2.960	2.590	2.310	1.830	1.560	1.640	7.840	9.500	2.660	11.500
Nstca 12/20	12.520	11.110	10.780	10.360	9.900	7.990	5.780	6.030	6.000	7.110	7.590	10.680	11.940
Trskrv 20/33	9.590	9.820	9.730	10.000	8.460	7.840	6.640	5.280	5.690	6.820	7.740	8.910	8.690
Wilson River I - 24/40	16.170	18.160	17.900	18.730	16.680	15.000	31.520	11.130	30.060	12.690	14.330	15.990	16.700
Wilson River II - 24/46	35.710	34.940	34.190	34.260	30.030	26.280	27.840	20.900	20.950	24.220	27.870	31.530	32.700
Nhlm 15/25	11.860	10.510	10.030	9.620	9.450	6.800	5.970	6.260	5.170	5.920	7.230	10.320	11.920
SoFork 5/7	0.305	0.312	0.303	0.308	0.264	0.232	0.165	0.175	0.190	0.185	0.213	0.239	0.275
<b>System Total</b>	<b>112.535</b>	<b>107.522</b>	<b>104.663</b>	<b>105.508</b>	<b>94.424</b>	<b>80.402</b>	<b>91.855</b>	<b>63.085</b>	<b>80.030</b>	<b>77.915</b>	<b>93.333</b>	<b>98.299</b>	<b>113.785</b>



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**Tillamook People's Utility District  
 Agenda for January 17, 2012  
 Regular Board Meeting**

- **4 p.m.** - Convene Board Workshop – Energy Efficiency Presentation
- **6 p.m.** - Convene Regular Board Meeting
- **Presentations by the Public:** None

Presentations will be limited to five minutes per person or group unless prior arrangements for additional time have been requested through the general manager's office.

- **Installation of New Officers:** Barbara Trout, President  
 Doug Olson, vice President  
 Edwin Jenkins, Treasurer  
 Ken Phillips, Secretary  
 Harry Hewitt, Director
- **Approval of Minutes (Voice Vote)** Pgs. 1-5
  - December 13, 2011 Regular Board Minutes

▪ **Department Reports**

<b>General Manager</b>	Pgs. <b>Action Item(s):</b> None
<b>Finance/IS</b>	Pgs. 6-18 <b>ACTION ITEM(S):</b> None
<b>Customer Services</b>	Pgs. 19-20 <b>Action Item(s):</b> Approve Write-offs \$2,876.61 (Voice Vote)
<b>Human Resources</b>	Pgs. 21 <b>Action Item(s):</b> None
<b>Public Relations</b>	Pgs. 22-31 <b>ACTION ITEM(S):</b> None
<b>Power Services</b>	Pgs. 32-38 <b>ACTION ITEM(S):</b> Sale of the Surplus Central Warehouse Property

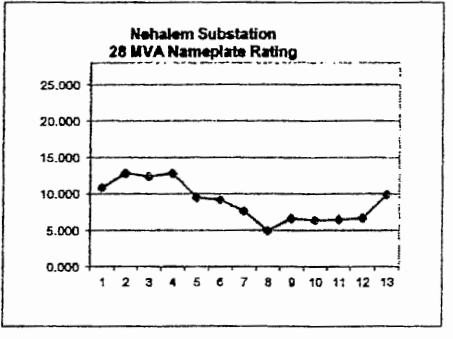
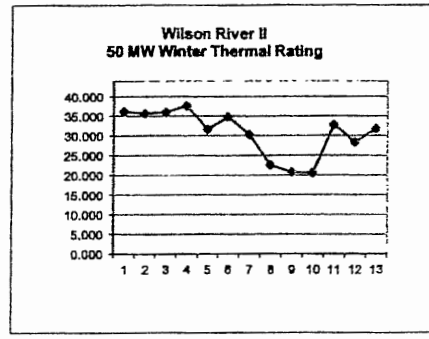
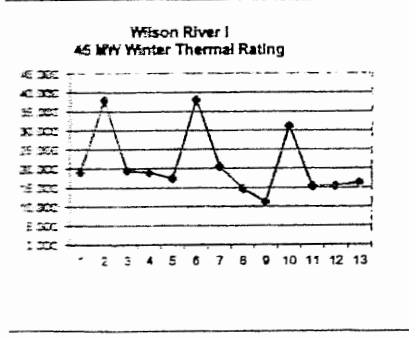
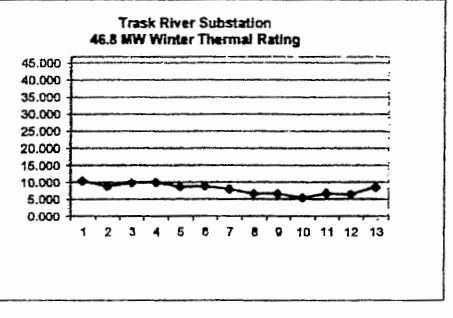
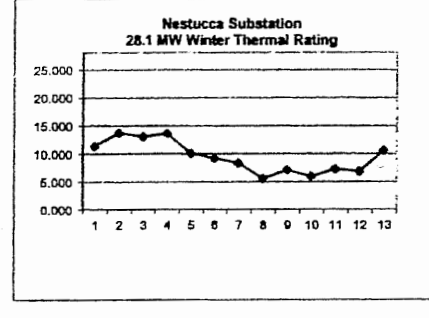
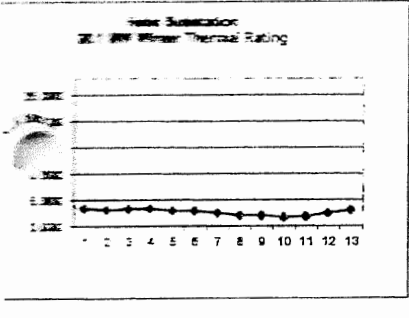
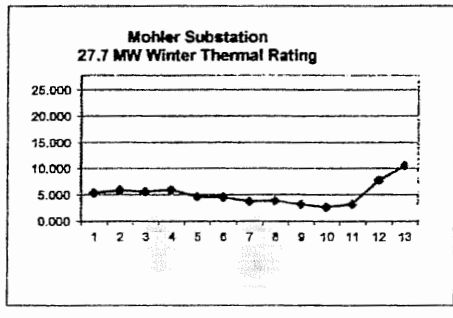
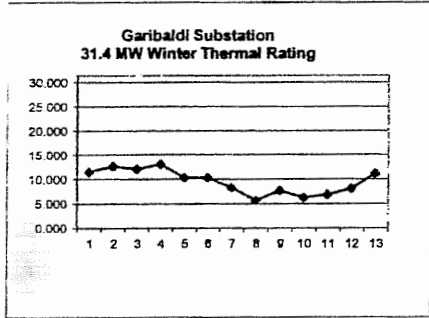
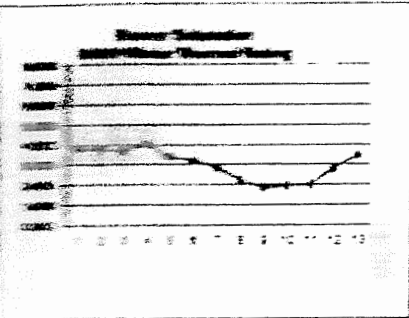
- **Approval of December 2011 Accounts Payables (Voice Vote)**
- **Items from the Board:**

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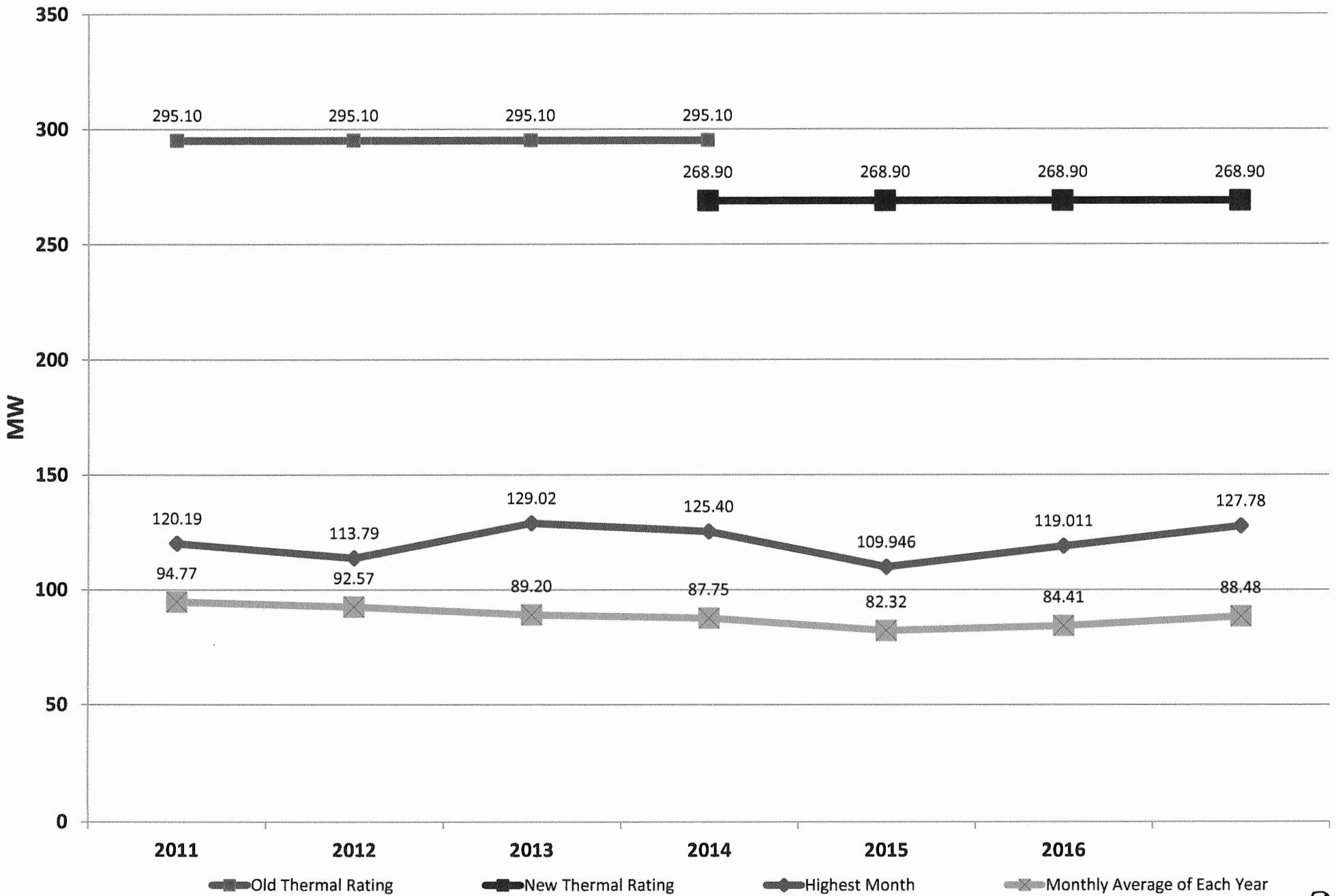
**SUBSTATION LOADING (In Megawatts)**

	Dec-11	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	
5/25	3.786	3.746	3.656	4.302	3.550	3.160	2.810	2.170	1.790	1.920	1.970	2.780	3.430
Mhr 12/20	11.296	11.296	11.296	11.296	10.220	10.190	8.130	5.500	7.530	6.100	6.710	7.970	11.040
Natca 12/20	5.796	5.796	5.796	5.536	4.590	4.430	3.640	3.750	3.070	2.570	3.080	7.640	10.390
Trskrv 20/33	11.296	11.296	11.296	11.296	2.770	2.760	2.340	1.870	1.880	1.540	1.700	2.310	2.850
Wilson River I - 2446	11.296	11.296	11.296	11.296	9.970	9.140	8.240	5.420	6.970	5.820	7.150	6.770	10.450
Wilson River II - 2446	11.296	11.296	11.296	11.296	8.530	8.730	7.800	6.370	6.340	5.210	6.470	6.180	8.370
Nhlm 15/25	11.296	11.296	11.296	11.296	17.170	37.880	20.300	14.470	11.010	30.890	15.160	15.260	16.120
SoFork 5/7	11.296	11.296	11.296	11.296	31.420	34.560	30.110	22.420	20.620	20.380	32.590	28.210	31.620
	11.296	11.296	11.296	11.296	9.410	9.070	7.530	4.850	6.500	6.270	6.360	6.550	9.770
	11.296	11.296	11.296	11.296	0.286	0.266	0.266	0.202	0.181	0.168	0.195	0.251	0.272
<b>System Total</b>				<b>118.519</b>	<b>97.706</b>	<b>120.186</b>	<b>91.186</b>	<b>67.022</b>	<b>65.891</b>	<b>80.868</b>	<b>81.385</b>	<b>83.901</b>	<b>104.312</b>



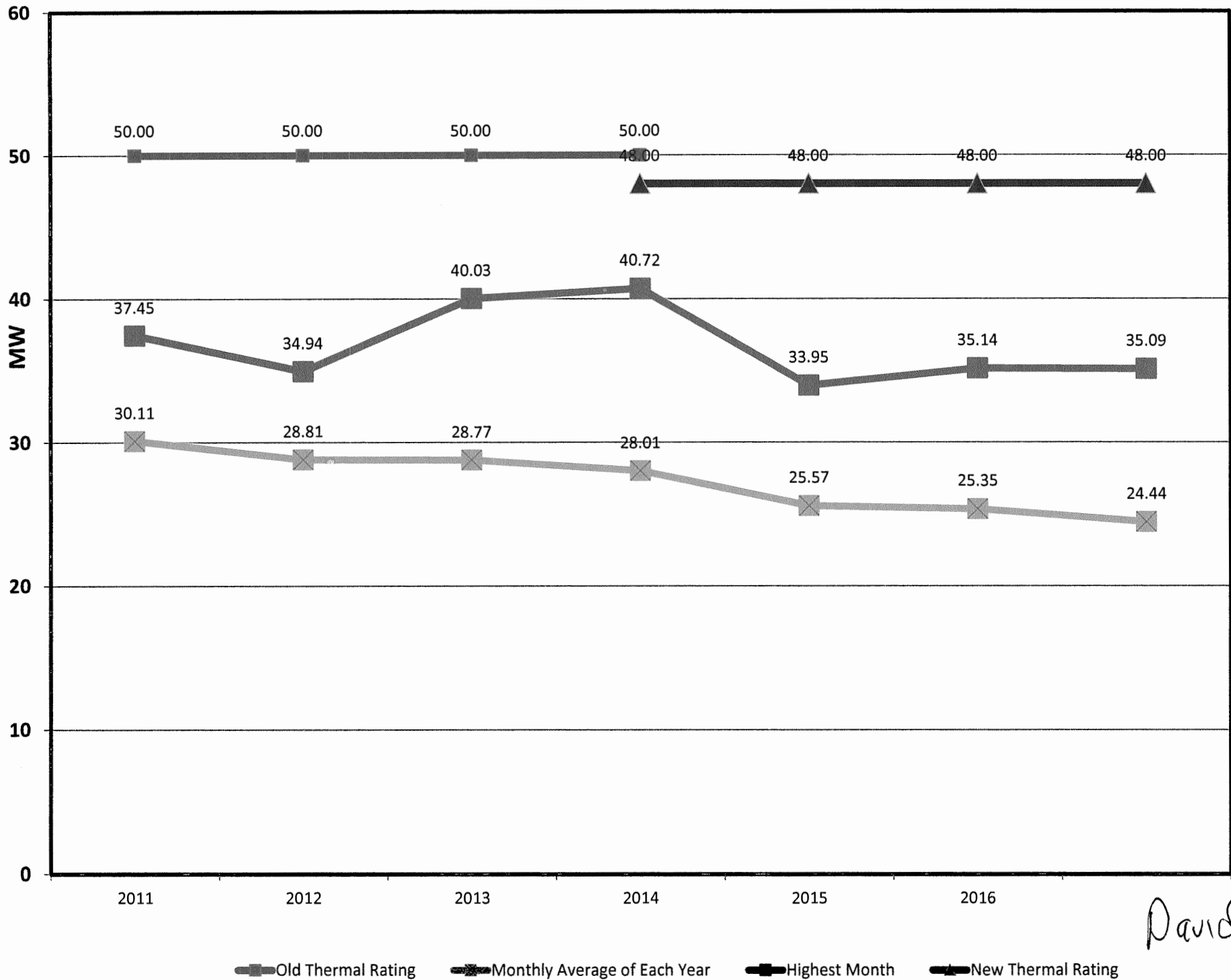
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# Total System Transformer Load



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# Wilson River II Transformer Load



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## Tillamook PUD Transformer Loading

Substation	Substation MW Winter	Year of	Jan 2017 Load	Load as a % of
	Thermal Rating	Thermal Rating		Thermal Rating
Beaver	8.00	2011	4.60	58%
	8.00	2014	4.60	58%
	8.00	PUC	4.60	58%
Garibaldi	31.40	2011	15.54	49%
	27.00	2014	15.54	58%
	25.00	PUC	15.54	62%
Mohler	27.70	2011	5.36	19%
	27.70	2014	5.36	19%
	27.70	PUC	5.36	19%
Hebo	28.10	2011	3.54	13%
	28.10	2014	3.54	13%
	28.10	PUC	3.54	13%
Nestucca	28.10	2011	16.84	60%
	28.10	2014	16.84	60%
	28.10	PUC	16.84	60%
Trask River	46.80	2011	11.12	24%
	36.00	2014	11.12	31%
	36.90	PUC	11.12	30%
Wilson River I	45.00	2011	21.24	47%
	36.00	2014	21.24	59%
	33.00	PUC	21.24	64%
Wilson River II	50.00	2011	35.09	70%
	48.00	2014	35.09	73%
	44.00	PUC	35.09	80%
Nehalem	28.00	2011	14.04	50%
	28.00	2014	14.04	50%
	28.00	PUC	14.04	50%
South Fork	2.00	2011	0.41	21%
	2.00	2014	0.41	21%
	2.00	PUC	0.41	21%
Monthly Total Load	295.10	2011	127.78	43%
	268.90	2014	127.78	48%
	260.80	PUC	127.78	49%

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