

# January Cold Snap Board Update

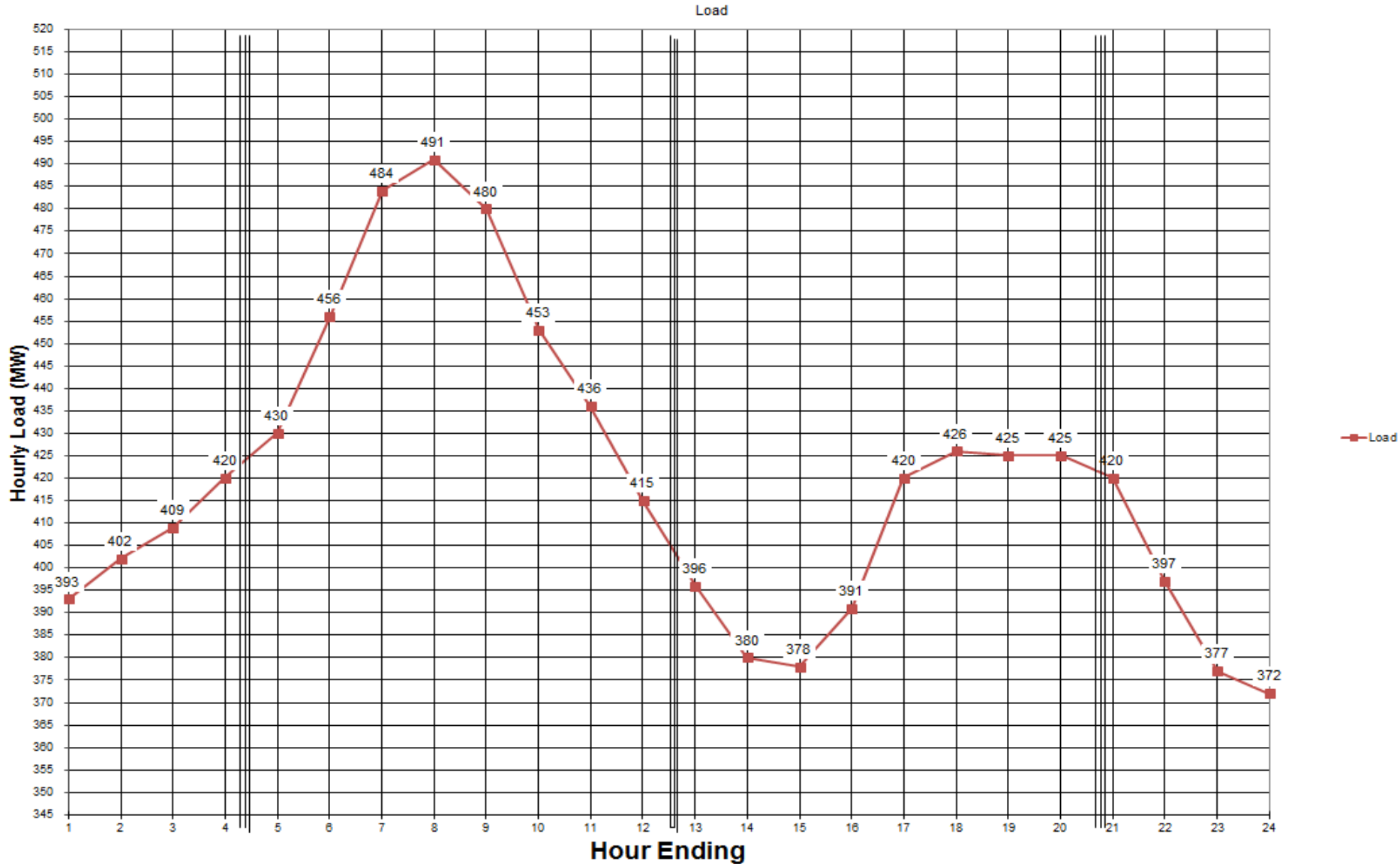
January 16, 2017

*Note: for discussion; no action required*

# Short Term Planning

- Monitor several weather forecasts – use conservative forecast to plan for peak load
- Purchased 50 MW of January On-Peak energy on Dec 29<sup>th</sup> due to cover load
- Postponed Chelan Plant A1 unit outage that was scheduled for January 4<sup>th</sup>.
- Sent out daily update emails with highlights of forecasted cold temps, prices, flows and other conditions
- Update “Energy Alerts” which is internal communication to let other areas in District know that we were in “red” status

# District Load Chart for 1/5/2017



# District Peak Load Records

Date	Hourly Peak Load (MW)	Temperature at Saddlerock Sub.	Time of Day Peak Load occurred
Feb 6, 2014	464	+4 F	7:00- 8:00 am
Jan 4, 2017	488	0 F	7:00- 8:00 am
Jan 5, 2017	491	-1 F	7:00- 8:00 am

## District Peak Load (almost and what if)

Date	Hourly Peak Load (MW)	Temperature at Saddlerock Sub.	Time of Day Peak Load occurred
Jan 12, 2017	490	-1 F	7:00- 8:00 am
Jan 13, 2017	479 + ~16?	-1 F	7:00- 8:00 am

# How cold was it?

(source = National Weather Service)

STATION: WENATCHEE WA PANGBORN FIELD  
MONTH: JANUARY  
YEAR: 2017  
LATITUDE: 47 23 N  
LONGITUDE: 120 12 W

TEMPERATURE IN F:					:PCPN:	SNOW:	WIND	:SUNSHINE:	SKY	:PK WND										
1	2	3	4	5	6A	6B	7	8	9	10	11	12	13	14	15	16	17	18		
DY	MAX	MIN	AVG	DEP	HDD	CDD	WTR	SNW	DPTH	SPD	SPD	DIR	MIN	PSBL	S-S	WX	SPD	DR		
1	28	19	24	-3	41	0	0.02	M	M	4.6	13	80						230		
2	26	13	20	-7	45	0	T	M	M	9.7	20	30						30		
3	18	6	12	-15	53	0	0.00	M	M	4.0	12	280						280		
4	17	2	10	-17	55	0	0.00	M	M	6.4	18	300						300		
5	14	-1	7	-21	58	0	0.00	M	M	4.7	13	310						110		
6	14	2	8	-20	57	0	T	M	M	4.2	10	290						290		
7	15	0	8	-20	57	0	0.03	M	M	6.1	12	300						300		
8	20	12	16	-12	49	0	0.20	M	M	4.6	9	270						270		
9	25	19	22	-6	43	0	T	M	M	2.1	8	280						290		
10	26	17	22	-6	43	0	0.05	M	M	4.6	10	350						M		
11	19	4	12	-17	53	0	0.00	M	M	5.0	16	280						M		
12	13	-2	6	-23	59	0	0.00	0.0	0	1.4	7	310	M	M	0	12	8	320		
13	12	-1	6	-23	59	0	0.00	M	M	2.3	8	290	M	M	4		8	300		
14	19	7	13	-16	52	0	0.00	M	M	3.4	10	310	M	M	8	1	11	300		
15	16	12	14	-15	51	0	T	M	M	7.6	13	100	M	M	10	1	16	90		
SM	282	109			775	0	0.30		0.0	70.7			M		96					
AV	18.8	7.3							5	4.7	FASTST		M	M	6			MAX (MPH)		
									MISC	----	>	#	20	30				#	26	30

[TEMPERATURE DATA]  
AVERAGE MONTHLY: 13.0  
DPTR FM NORMAL: -15.0  
HIGHEST: 28 ON 1  
LOWEST: -2 ON 12











# Substation Loading

## 1/6/2017

- Chelan Area Stations 76%
- Leavenworth Area Stations 88%

# Miller Substation (mobile installation)

