

Minnesota Public Utilities Commission  
Docket No. E999/PR-18-12  
Docket No. E-999/M-18-78

Minnesota Department of Commerce  
Docket No. E999/PR-02-1240

**Renewable Energy Certificate Retirement Report for Renewable Energy Standards and Green Pricing Program**  
REC Retirement Compliance Reporting

**Due: June 1st, 2018**

For the Reporting Period:

January 1, 2017 - December 31, 2017\*

\*Exception for Worksheet A.6: **Ordering pt. 4C** requires reporting REC sales & purchases for the **2 preceding calendar years**

**Instructions**

**Note:** items in red indicate changes in reporting from previous year

Complete the following worksheets and e-file in **Excel (XLS or XLSX)** format:

- Worksheet 1, Utility Info
- Worksheet 2, Renewable Energy Standard Retail Sales
- Worksheet 3, Green Pricing Program Retail Sales
- Worksheet 4, RES & Green Pricing REC Retirements
- Worksheet 5, Biennial Compliance Reporting**
- Worksheet 6, RECs Bought and Sold During the Reporting Period**

To e-file, login, or register, at: <https://www.edockets.state.mn.us/EFiling/home.jsp>

For directions on how to e-file, see: <http://www.commerce.state.mn.us/eDocFile/eFilingHelp.html>

For questions about Renewable Energy Certificate retirement or compliance with Renewable Energy Standards, contact Kelly Martone at 651-201-2245 or at [kelly.martone@state.mn.us](mailto:kelly.martone@state.mn.us).

For questions about Green Pricing or about filling out this spreadsheet, send an email to: [DG.Energy@state.mn.us](mailto:DG.Energy@state.mn.us)

For questions about e-filing, contact Karen Santori at 651-539-1530 or at [karen.santori@state.mn.us](mailto:karen.santori@state.mn.us).

Minnesota Public Utilities Commission: Docket No. E999/PR-18-12, Docket No. E-999/M-18-78	<b>Attachment 1</b>
Minnesota Department of Commerce: Docket No. E999/PR-02-1240	Reporting Period: January 1, 2017 - December 31, 2017
<b>Renewable Energy Certificate Retirement Report for Renewable Energy Standards and Green Pricing Programs</b>	

Report Year: 2017	Date Submitted: June 1, 2018
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FILING UTILITY INFORMATION		CONTACT INFORMATION	
Company ID #	85	Contact Name	Pamela Gibbs
Company Name	Xcel Energy	Contact Title	Regulatory Case Specialist
Street Address Line 1	414 Nicollet Mall	Contact Telephone	612-330-2889
Street Address Line 2		Contact E-Mail	<a href="mailto:pamela.k.gibbs@xcelenergy.com">pamela.k.gibbs@xcelenergy.com</a>
City	Minneapolis	COMMENTS/NOTES	
State	MN		
Zip Code	55401		

Filing for <b>RENEWABLE ENERGY STANDARDS</b> on behalf of:			
Utility Name	Utility Name	Utility Name	Utility Name
Northern States Power Company - Minnesota			

Filing for <b>GREEN PRICING PROGRAMS</b> on behalf of:			
Utility Name	Utility Name	Utility Name	Utility Name
Northern States Power Company - Minnesota			

Minnesota Public Utilities Commission: Docket No. E999/PR-18-12, Docket No. E-999/M-18-78	<b>Attachment 2</b>
Minnesota Department of Commerce: Docket No. E999/PR-02-1240	Reporting Period: <b>January 1, 2017 - December 31, 2017</b>
<b>Total Retail Sales to Minnesota Customers and Renewable Energy Certificates Required to be Retired for RENEWABLE ENERGY STANDARD Compliance</b>	

Retail Sales Total (MWh)	29,739,386
RES Percentage Obligation	25%
RECs Required to be Retired	7,434,847
Actual RECs Retired	0

Enter current reporting year  
data.

Utility ID #	Utility	Retail Sales Amount (MWh)	Notes
85	Xcel Energy (NSP-MN)	29,739,386	

Minnesota Public Utilities Commission: Docket No. E999/PR-18-12, Docket No. E-999/M-18-78	<b>Attachment 3</b>
Minnesota Department of Commerce: Docket No. E999/PR-02-1240	Reporting Period: <b>January 1, 2017 - December 31, 2017</b>
<b>GREEN PRICING Program Sales</b>	

[TRADE SECRET BEGINS]

TOTAL GREEN PRICING Sales (MWh)	
RECS retired for GREEN PRICING programs	

[TRADE SECRET ENDS]

List the cumulative retail sales of green pricing electricity, including utility-managed community solar, and the number of customers as of December 31, 2017.						
Utility ID # (on Worksheet 1)	Utility Name	Program Name	No. of Program Customers	Program Sales (MWh)	Retail Rate (\$/kWh)	Notes
85	Xcel Energy (NSP-MN)	Windsorce Minnesota	52,872	178,613	\$0.0353	
85	Xcel Energy (NSP-MN) <sup>1</sup>	Renewable * Connect	882	3,097	\$0.03555	2017 Month-to-Month Rate
85	Xcel Energy (NSP-MN) <sup>1</sup>	Renewable * Connect	794	5,082	\$0.03243	2017 5-year rate
85	Xcel Energy (NSP-MN) <sup>1</sup>	Renewable * Connect	534	28,459	\$0.03193	2017 10-year rate
			[TRADE SECRET BEGINS]			
85	Xcel Energy (NSP-MN) <sup>1</sup>	Renewable * Connect Government	1		\$0.03093	2017 Rate
			[TRADE SECRET ENDS]			
85	Xcel Energy (NSP-MN)	Community Solar Gardens		0		No sales since company receives all RECS and subscribers do not get CSG energy

<sup>1</sup>The total amount of program sales stated above and the equivalent REC Retirement quantities are approximately 95 MWh higher than what was filed in the 2017 Renewable\*Connect compliance filing dated April 1, 2018, due to a discovered discrepancy between company billing data reports and company program subscription reports. It was found that customers' sales continued to be accounted for although some customers had previously terminated their subscriptions. This artificial increase in sales, lead to an increase in REC retirements. The reporting issue has been corrected and the same 95 RECs will be reduced from the 2018 Renewable\*Connect sales numbers.

Minnesota Public Utilities Commission: Docket No. E999/PR-18-12, Docket No. E-999/M-18-78	<b>Attachment 4</b>
Minnesota Department of Commerce: Docket No. E999/PR-02-1240	Reporting Period: <b>January 1, 2017 - December 31, 2017</b>
<b>Renewable Energy Certificate Retirements for Renewable Energy Standards and Green Pricing Programs</b>	

<b>Renewable Energy Standard REC Retirement Account Name:</b>	<b>NSP-MN RES Retirement 2017 - D893545D-DFF4</b>
<b>Green Pricing REC Retirement Account Name:</b>	<b>NSP-MN Windsource Retirement-2017 - 0D6D0392-993F</b>
<b>Green Pricing REC Retirement Account Name:</b>	<b>MN Renewable Connect 2017 - F899ED0D-DAE2</b>

<b>[TRADE SECRET BEGINS]</b>	
<b>Total RECs</b>	1 REC = 1 MWh
<b>[TRADE SECRET ENDS]</b>	

MRETS ID	MRETS Generator Facility Name	Generator Fuel Type	RECS retired for		NOTES
			<b>RENEWABLE ENERGY STANDARD compliance</b>	<b>GREEN PRICING programs</b>	
M677	Adams - Adams Wind	Wind	48,994		
M656	Agassiz Beach - Agassiz Beach	Wind	3,674		
M277	Apple River (Unit 1)(Units 3-4) - Apple River	Hydroelectric Water	22,481		
M831	Big Blue Wind Farm - Big Blue Wind Farm	Wind	104,259		
M278	Big Falls (Units 1-3) - Big Falls	Hydroelectric Water	86,705		
M1051	Black Oak Wind Farm	Wind	0	59,500	Purchased RECs Retired for Windsource GPP
M432	Boeve Windfarm - Boeve Windfarm	Wind	0	7,332	Windsource
M965	Border Winds Wind Farm - Border Wind	Wind	22,974		
M459	Carleton College - Carleton College	Wind	2,995		
M279	Cedar Falls (Units 1-3) - Cedar Falls	Hydroelectric Water	70,038		
M387	Chanarambie Power Partners (1) - Chana Wind	Wind	77,050		
M388	Chanarambie Power Partners (2) - Chana Wind	Wind	72,568		
M280	Chippewa Falls (Unit 1) - Chippewa Falls	Hydroelectric Water	17,493		
M320	Chippewa Falls (Unit 2) - Chippewa Falls	Hydroelectric Water	30,664		
M321	Chippewa Falls (Unit 3) - Chippewa Falls	Hydroelectric Water	42,652		
M322	Chippewa Falls (Unit 4) - Chippewa Falls	Hydroelectric Water	38,018		
M323	Chippewa Falls (Unit 5) - Chippewa Falls	Hydroelectric Water	3,437		
M324	Chippewa Falls (Unit 6) - Chippewa Falls	Hydroelectric Water	25,564		
M352	Cisco Wind Energy - Cisco Wind Energy	Wind		30,442	Windsource
M689	Community Wind North - North Community	Wind	32,341		
M690	Community Wind North - North Wind Turbine	Wind	30,419		
M707	Cornell (Unit 1-4) - Cornell (Unit 1-4)	Hydroelectric Water	172,035		
M872	Cow Poo - Cow Poo	Biogas	6,495		
M678	Danielson - Danielson Wind Farms	Wind	34,210		
M282	Dells (Units 1-7) - Dells	Hydroelectric Water	100,452		
M887	Diamond K Dairy, Inc. - Diamond K Dairy	Biogas	911		
M351	East Ridge - East Ridge	Wind	17,628		
M353	Ewington Energy Systems - Ewington Energy	Wind	47,173		
M355	Fenton Power Partners I (1) - Fenton Power	Wind	312,161		
M356	Fenton Power Partners I (2) - Fenton Power	Wind	196,515		
M433	Fey Windfarm - Fey Windfarm	Wind	4,019		
M760	Fibrominn LLC - Fibrominn Multi	Biomass	285,610		
M366	FPL Energy Mower County - FPL Energy Mower	Wind	171,317		
M629	FreEner-g-2009-01 - FreEner-g-2009-01	Solar	28		
M630	FreEner-g-2010-01 - FreEner-g-2010-01	Solar	451		
M317	French Island (Unit 1) - French Island (Unit 1)	Biomass	66,619		
M274	French Island (Unit 2) - French Island (Unit 2)	Biomass	56,123		
M742	GL Bio Gas I, LLC - GL Bio Gas I	Biogas	10,831		
M493	Grand Meadow Wind Farm - Grand Meadow	Wind	212,175		
M577	Grant County Wind - Grant County Wind	Wind	40,633		
M885	GreenWhey Energy, Inc - GreenWhey Energy	Biogas	21,792		
M283	Hayward (Unit 1) - Hayward	Hydroelectric Water	1,752		
M484	Hibbing Public Utility - Laurentian	Biomass	339,975		
M509	Hilltop Power - Hilltop	Wind	455		
M284	Holcombe (Unit 1) - Holcombe (Unit 1)	Hydroelectric Water	64,500		
M328	Holcombe (Unit 2) - Holcombe (Unit 2)	Hydroelectric Water	76,911		
M329	Holcombe (Unit 3) - Holcombe (Unit 3)	Hydroelectric Water	73,349		
M431	Jeffers Wind 20 - Jeffers Wind 20	Wind	129,784		
M285	Jim Falls (Unit 1) - Jim Falls (Unit 1)	Hydroelectric Water	151,770		
M519	Jim Falls (Unit 3) - Jim Falls (Unit 3)	Hydroelectric Water	7,239		
M430	Jim Falls (Units 2) - Jim Falls (Units 2)	Hydroelectric Water	137,450		

MRETS ID	MRETS Generator Facility Name	Generator Fuel Type	RECS retired for RENEWABLE ENERGY STANDARD compliance	RECS retired for GREEN PRICING programs	NOTES
M452	JJN Windfarm - JJN Windfarm	Wind		4,848	Windsource
M635	Kas Brothers Windfarm - Kas Brothers W	Wind	2,014		
M386	K-Brink Wind Farm - K-Brink Wind Farm	Wind		7,562	Windsource
M534	Koda 1 - Koda Energy	Biomass	161,940		
M286	Ladysmith (Units 1-3) - Ladysmith	Hydroelectric Water	22,692		
M639	Lake Benton Power Partners II (LBII) - LB	Wind	207,860		
M728	Lake Benton Power Partners, LLC - Lake E	Wind	213,275		
M302	Laurie River 1 - Laurie River 1	Hydroelectric Water	1,379		
M303	Laurie River 2 - Laurie River 2	Hydroelectric Water	1,609		
M758	LCO Band of Lake Superior Chippewa Ind	Hydroelectric Water	28,664		
M305	McArthur Falls - McArthur Falls	Hydroelectric Water	18,958		
M655	MCC - Solar	Solar	1,473		
M447	McNeilus Group - McNeilus Group	Wind	44,210	21,442	Windsource
M287	Menomonie (Units 1-2) - Menomonie	Hydroelectric Water	50,254		
M730	Merrick Solar - Merrick Solar	Solar	236		
M681	Metro Wind - Metro Wind	Wind	477		
M390	MinnDakota Wind (1) - MinnDakota Win	Wind	111,152		
M732	MinnDakota Wind (1b) - MinnDakota Wi	Wind	129,024		
M391	MinnDakota Wind (2) - MinnDakota Win	Wind	132,198		
M738	MNRDF_DNR - MNRDF_DNR	Solar	274		
M508	Moraine II - Moraine II	Wind	104,346	5,125	Windsource
M392	Moraine Wind - Moraine Wind	Wind	91,134		
M606	Neshonoc - Neshonoc	Hydroelectric Water	3,901		
M643	Nobles Wind Farm - Nobles Wind Farm I	Wind	188,927		
M646	Nobles Wind Farm - Nobles Wind Farm II	Wind	226,105		
M393	Norgaard North - Norgaard North	Wind	9,333		
M394	Norgaard South - Norgaard South	Wind	7,438		
M657	North Shaokatan Wind - Group	Wind	21,857		
M1064	North Star Solar PV - North Star Solar PV	Solar	0	8,061	Renewable Connect
M1064	North Star Solar PV - North Star Solar PV	Solar	0		Renewable Connect Government
M1045	Odell Wind Farm (1) - Odell Wind Farm (	Wind	0	28,578	Renewable Connect
M1045	Odell Wind Farm (1) - Odell Wind Farm (	Wind	0		Renewable Connect Government
M636	Olsen Windfarm LLC - Olsen Windfarm	Wind	2,025		
M694	Pine Bend - Pine Bend	Biogas	59,473		
M304	Pine Falls - Pine Falls	Hydroelectric Water	26,340		
M363	Pipestone - Pipestone	Wind	14,627		
M966	Pleasant Valley Wind Farm - Pleasant Val	Wind	7,796		
M307	Pointe du Bois - Pointe du Bois	Hydroelectric Water	10,047		
M791	Prairie Rose Wind - Prairie Rose Wind, LL	Wind	242,784		
M275	Red Wing (Unit 1) - Red Wing (Unit 1)	Biomass	115,345		
M330	Red Wing (Unit 2) - Red Wing (Unit 2)	Biomass	109,984		
M642	Ridgewind - Ridgewind	Wind	57,603		
M288	Riverdale (Units 1-2) - Riverdale	Hydroelectric Water	3,848		
M359	Rock County	Wind	0	32,680	Windsource
M362	Rock Ridge Power Partners - Rock Ridge I	Wind	4,302		
M658	Ruthon Ridge Wind - Group	Wind	32,544		
M706	SAF Hydro, LLC - SAF Hydro	Hydroelectric Water	83,694		
M289	Saxon Falls (Units 1-2) - Saxon Falls	Hydroelectric Water	10,426		
M389	Shane's Wind Machine - Shane's Wind M	Wind	4,216		
M306	Slave Falls - Slave Falls	Hydroelectric Water	22,144		
M796	Slayton Solar - Slayton Solar LLC	Solar	5,447		
M364	South Ridge Power Partners - South Ridg	Wind	4,111		
M627	SRMN2010-J-01 - SRMN2010-J-01	Solar	2,661		
M714	SRMN2011-01 - SRMN2011-01	Solar	1,477		
M737	SRMN2011-02 - SRMN2011-02	Solar	1,730		
M882	SRMN2011-03 - SRMN2011-03	Solar	150		
M766	SRMN2012-01 - SRMN2012-01	Solar	1,698		
M786	SRMN2012-02 - SRMN2012-02	Solar	2,057		

MRETS ID	MRETS Generator Facility Name	Generator Fuel Type	RECS retired for <b>RENEWABLE ENERGY STANDARD</b> compliance	RECS retired for <b>GREEN PRICING</b> programs	NOTES
M797	SRMN2012-03 - SRMN2012-03	Solar	2,301		
M836	SRMN2012-04 - SRMN2012-04	Solar	231		
M881	SRMN2013-01 - SRMN2013-01	Solar	2,518		
M883	SRMN2013-02 - SRMN2013-02	Solar	2,260		
M291	St. Anthony (Units 1-5) - St. Anthony	Hydroelectric Water	136,878		
M711	St. Croix Falls (Unit 1-8) - St. Croix Falls (L	Hydroelectric Water	222,203		
M559	St. John's Solar Farm - St. John's Solar Fai	Solar	1,610		
M649	St. Joseph Windfarm Inc. - St. Joseph Wir	Wind	24,603		
M308	St. Leon Wind Energy - St. Leon Wind En	Wind	19,991		
M368	St. Olaf College - St. Olaf College	Wind	1,782		
M875	St. Paul Cogeneration - St. Paul Cogenera	Biomass	225,425		
M292	Superior Falls (Units 1-2) - Superior Falls	Hydroelectric Water	21,515		
M396	Tholen Transmission Inc. (North) - Tholer	Wind	14,604		
M397	Tholen Transmission Inc. (South) - Tholer	Wind	10,736		
M293	Thornapple (Units 1-2) - Thornapple	Hydroelectric Water	16,326		
M294	Trego (Units 1-2) - Trego	Hydroelectric Water	16,591		
M561	Uilk Wind Farm - Uilk Wind Farm	Wind	7,772		
M683	Valley View - Valley View Wind	Wind	18,941		
M453	Velva Windfarm - Velva Windfarm	Wind	15,182		
M395	West Ridge - West Ridge	Wind	5,837	4,573	Windsource
M395	West Ridge - West Ridge	Wind	0		
M897	Western Technical College - Western Tec	Hydroelectric Water	1,897		
M295	White River (Units 1-2) - White River	Hydroelectric Water	5,065		
M276	Wilmarth (Unit 1) - Wilmarth (Unit 1)	Biomass	57,580		
M338	Wilmarth (Unit 2) - Wilmarth (Unit 2)	Biomass	59,689		
M638	Wind Power Partners - Wind Power Part	Wind	28,920		
M434	Windcurrent Farms - Windcurrent Farms	Wind	0	5,109	Windsource
M365	Windvest Power Partners - Windvest Pov	Wind	4,025		
M721	Winona County Wind - Winona County V	Wind	245		
M712	Wissota (Unit 1-3) - Wissota (Unit 1-3)	Hydroelectric Water	144,143		
M713	Wissota (Unit 4-6) - Wissota (Unit 4-6)	Hydroelectric Water	152,539		
M625	WM Renewable Energy - Burnsville - WN	Biomass	65,635		
M626	Woodstock Municipal Wind - Woodstock	Wind	1,321		
M802	Zephyr Wind, LLC (CWS) - Zephyr Wind (	Wind	29,256		
M792	Zephyr Wind, LLC (CWS) - Zephyr Wind (:	Wind	37,278		

Minnesota Public Utilities Commission: Docket No. E999/PR-18-12, Docket No. E-999/M-18-78	<b>Attachment 5</b>
Minnesota Department of Commerce: Docket No. E999/PR-02-1240	Reporting Period: <b>January 1, 2016 - December 31, 2017</b>
<b>Biennial Compliance reporting</b>	
Please report the following items in compliance with the PUC May 28, 2013 Order in Docket No. E999/M-12-958	

Ordering Point

**4.A. & 5.H. The year through which the utility can maintain compliance with its current renewable portfolio\***

\*Include banked Renewable Energy Credits (RECs)

Beyond 2040

**4.B. & 5.I. Projected compliance for the current plus three (3) upcoming years. Include banked RECs.**

Year	Actual/Projected MN retail sales (MWh)	RES Req.(%)	RES Req. (MWh)	Projected Resources (MWh)	Projected Surplus/ (Deficit) (MWh)
2017	29,739,386	25%	7,434,847	8,377,040	7,951,109
	[TRADE SECRET BEGINS		[TRADE SECRET BEGINS		
2018		25%			
2019		25%			
2020		30%			
	[TRADE SECRET ENDS]				[TRADE SECRET ENDS]

**5.E.2 & 5.F. Identify other State Renewable Standards or Objectives to which the utility is subject, and the percentage of renewable energy allocated to meet the renewable requirements.**

State	RES Req. (MWh)	RES Req. (%)	Percent of utility's total system renewable generation apportioned to this state (%)*



WI	842,719	12.89%	15.97%
MI	14,118	10%	0.33%
SD	205,031	10% Voluntary	5.14%
ND	0	Voluntary	5.43%

\*apportionment of renewable energy should reflect each state's percentage of the utility's total system sales.

**5.E.3 (i) The status of the utility's renewable energy mix relative to the objective & standards.**

The Company's overall renewable energy mix exceeds the renewable portfolio standard (RPS) obligations for the state of Minnesota, and other states it operates in, and is sufficiently able to comply with the current requirements. The Company continues to increase its renewable energy mix, primarily in wind and solar, in an effort to maintain compliance with increased obligations, reduce costs, and decrease the carbon footprint.

**5.E.3(ii) Efforts taken to meet the objective and standards**

The Company recently has received approval to add 1850 MW of wind resources to add to the renewable portfolio. These resources are a combined mixture of Self-Build, Build-Own-Transfers(BOT), and Power Purchased Agreement (PPAs) projects and are all expected to achieve commercial operations prior to 2021 in order to qualify for the Production Tax Credit (PTC). The approval of these projects continues to prove to be a reasonable and prudent way for NSP to meet its obligations under the MN Renewable Energy Standard.

**5.E.3(iii) Obstacles encountered or anticipated in meeting the objective or standards**

In 2020, the Renewable Portfolio Standard (RPS) increases the overall RES, has a 24% wind requirement as part of the 30% RES, as well as an additional 1.5% solar obligation. The existing and approved resources will satisfactorily meet all requirements through 2030. The 2030 SES 10% goal will substantially increase the solar need, and will necessitate the addition of solar resources in the future.

**5.E.3(iv) Potential solutions to the obstacles**

See question 5.E.3(ii) for potential solutions to meet required objectives and standards. This issue will be addressed in future resource plans.

**5.G. List any renewable generation facilities expected to become operational during the upcoming year**

Facility Name	Type	Capacity (MW)	Cap. Factor (%)	Expected Comm'l Operation Date
Community Solar Gardens	Solar	various	16-19%	various
Small Solar - RDF Projects	Solar	various	16-19%	various
Solar*Rewards Incentive Installations	Solar	various	16-19%	various

**5.K. Identify efforts taken to adequately protect against undesirable economic impacts on ratepayers, including, but not limited to keeping customer's bills and the utility's rates as low as practicable, given regulatory and other constraints.**

In an effort to acquire low cost wind energy, the Company issued an RFP in late 2016. The timing of this RFP permitted the projects to qualify for the PTC tax benefits. The Company will continue to take advantage of market opportunities, as these are identified as beneficial to the rate payer.

Minnesota Public Utilities Commission: Docket No. E999/PR-18-12, Docket No. E-999/M-18-78 **Attachment 6**  
 Minnesota Department of Commerce: Docket No. E999/PR-02-1240 Reporting Period: **ary 1, 2016 - December 31, 2017**  
**M-RETS RECs Bought and Sold**  
 Ordering pt. 4C requires reporting REC sales & purchases for the 2 preceding calendar years

REC Purchases Total	169,500
REC Sales Total	356,310

Enter current reporting year data.

Wholesale REC Purchases	Wholesale REC Sales	PRICE	NOTES
	7,372	\$24.00	Poultry Waste
	3,907	\$24.00	Poultry Waste
	70,857	\$23.00	Poultry Waste
	64,974	\$25.00	Poultry Waste
	12,000	\$28.00	Poultry Waste
	79,331	\$28.00	Poultry Waste
	117,868	\$29.00	Poultry Waste
30,000		\$0.80	Windsorce Purchase
25,000		\$0.80	Windsorce Purchase
40,000		\$0.80	Windsorce Purchase
12,000		\$0.80	Windsorce Purchase
55,000		\$0.80	Windsorce Purchase
7,500		\$0.80	Windsorce Purchase