

**Mr. Marshall Report Errata**

Project ID	
Project	R-3248-2013
Project Name	
Date	12/02/2014
Project #	C-ESM-0023

**Incorrect chapter references**

Page 10 - "Chapter 9" should be "Chapter 5."

Page 15 - "Chapter 9" should be "Chapter 5."

Page 26, bottom paragraph - "The next chapter considers" should be "The second next chapter considers."

Page 27, top paragraph - "the following chapter determines" should be "the next chapter determines."

Page 47 - "Chapter 8" should be "Chapter 9."

**Typographical errors**

Page 10 - "\$1.25M" should be "\$1.29M".

Page 11, Footnote 31 - "HQD have" should be "HQD has".

Page 22 - "Chapters 5" should be "Chapter 5."

Page 22, Section 4.4, 5<sup>th</sup> line - "that" should be "than"

Page 15 - "HQD have" should be "HQD has".

Page 36 - "but I would not recommend nor" should have a comma after "recommend".

**Data Presentation errors**

Page 34, Figure 5-1 - "Forecast Risk Capacity" should be 47 MW not 45 MW

Page 41, middle paragraph - In the sentence "Even taking the largest single deviation of 12% in the negative direction the equivalent deviation for 3139 MW of wind in 2015 would be -382 MW." the "12%" should be "5%" and the "-382 MW" should be "-156 MW".

Page 41, Figure 6-5 – There are incorrect values in the “Five (5) Minute Intervals ‘Minimum MW line””

Operation of 1437 MW of Wind Capacity for Jan 20-26, 2013					
	Hourly Intervals				
	Hourly Wind Production	% Installed Capacity	Hourly Deviations	% Installed Capacity	Amount for 3139 MW in 2015
Average MW	868.7	60.4%	36.5	2.5%	80
Maximum MW	1,116.9	77.7%	314.0	21.8%	686
Minimum MW	314.0	21.8%	-174.9	12.2%	382

  

Five (5) Minute Intervals					
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	5 Minute Wind Production	% Installed Capacity	5 Minute Deviations	% Installed Capacity	Amount for 3139 MW in 2015
Average MW	868.7	60.4%	6.1	0.4%	13
Maximum MW	1,133.1	78.8%	52.1	3.6%	114
Minimum MW	279.4	19.4%	-174.9	-12.2%	-382

Should be

Operation of 1437 MW of Wind Capacity for Jan 20-26, 2013					
	Hourly Intervals				
	Hourly Wind Production	% Installed Capacity	Hourly Deviations	% Installed Capacity	Amount for 3139 MW in 2015
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Maximum MW	1,133.1	78.8%	52.1	3.6%	114
Minimum MW	279.4	19.4%	-71.5	-5.0%	-156

**Missing Figure Headings**

Page 52, Figure 9-2 has its headings missing. The figure should be replaced with the following.

Study	Peak Load MW	Wind MW	Penetration %Peak	Load Following			
				MW 1 StDev	%Wind 3StDev	%Wind	
NBSO 2005 #1	NB Area	3,300	400	12.1%	3.7	11.1	2.8%
#2	NB Area	3,300	600	18.2%	8.1	24.3	4.1%
#3	NS Area	2,100	400	19.0%	7.7	23.1	5.8%
#4	Maritimes	5,400	1000	18.5%	10.3	30.9	3.1%
GE-NS Power 2013 #1		2,100	335	16.0%		21	6.3%
#2		2,100	488	23.2%		29	5.9%
#3		2,100	551	26.2%		32	5.8%
#4		2,100	916	43.6%		45	4.9%
Idaho 2013 #1		3,400	800	23.5%		50	6.3%
#2		3,400	1,000	29.4%		130	13.0%
#3		3,400	1,200	35.3%		195	16.3%
HQ Following #1		39,000	3,000	7.7%		82	2.7%
IEA HQ Following		39,000	3,000	7.7%		150	5.0%
HQ Application		38,972	3,139	8.1%		3139	100.0%