

Summer 2013 Demand Response Event Response

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Background

- ◆ **At the 6/4/2014 meeting, the ICS approved NYISO recommended values for the SCR zonal performance factors and derate factors**
 - *2014 Gold Book Forecast values for the SCR enrollments were used before the actual July 2014 enrollment information was available*
- ◆ **July 2014 SCR enrollment information is now available**
- ◆ **Consistent with past practice, this presentation shows the SCR model values calculated based on the actual July 2014 enrollments**

SCR Model Values – Final Values with Actual July 2014 Enrollments

Column	A	B	C	D	E	F	G	
Superzone	July 2014 Enrollments*	ACL Based Performance Factors	Translation Factor (ACL to CBL)	Effective Capacity Value	Fatigue Factor	Model Value MW (=Col A * Col B * Col C * Col D * Col E)	Effective Derate % (=Col B * Col C * Col D * Col E)	
Row		Best 4 Hours						
1	A – E	528.2	0.8466	0.90	0.95	1.00	382.3	72.4%
2	F – I	160.1	0.8172	0.90	0.95	1.00	111.8	69.9%
3	J	374.0	0.6492	0.90	0.95	1.00	207.6	55.5%
4	K	70.2	0.6717	0.90	0.95	1.00	40.3	57.4%
5	Total	1132.4					742.1	65.5%
6	A – F	620.5	0.8486	0.90	0.95	1.00	450.2	72.6%
7	G – I	67.7	0.7388	0.90	0.95	1.00	42.8	63.2%
8	G – J	441.7	0.6608	0.90	0.95	1.00	249.5	56.5%

***Consistent with past practice, the 2014 Gold Book Forecast values are now replaced with actual July 2014 SCR enrollment numbers.**

Appendix

SCR Model Values – Based on 2014 Gold Book Forecast (as presented at 6/4/2014 ICS Meeting)

Column	A	B	C	D	E	F	G	
Superzone	SCR Enrollment 2014 Gold Book Forecast *	ACL Based Performance Factors	Translation Factor (ACL to CBL)	Effective Capacity Value	Fatigue Factor***	Model Value MW (=Col A * Col B * Col C * Col D * Col E)	Effective Derate % (=Col B * Col C * Col D * Col E)	
Row		Best 4 Hours						
1	A – E	547.8	0.8466	0.90	0.95	1.00	396.5	72.4%
2	F – I	168.3	0.8172	0.90	0.95	1.00	117.6	69.9%
3	J	381.6	0.6492	0.90	0.95	1.00	211.8	55.5%
4	K	91.3	0.6717	0.90	0.95	1.00	52.4	57.4%
5	Total	1188.8					778.3	65.5%
6	A – F	651.4	0.8486	0.90	0.95	1.00	472.6	72.6%
7	G – I	64.7	0.7388	0.90	0.95	1.00	40.9	63.2%
8	G – J	446.3	0.6608	0.90	0.95	1.00	252.1	56.5%

***Consistent with past practice, the 2014 Gold Book Forecast values will be replaced with actual July 2014 enrollment numbers when the information is available in late June.**

SCR Derate Factors used in IRM Studies

- ◆ **Translation Factor (ACL to CBL)**
 - ◆ **The Translation Factor was used to derate performance based on ICAP measures to a CBL equivalent**
- ◆ **Effective Capacity Value**
 - ◆ **The Effective Capacity Value derate factor was used to account for SCR performance changes beyond the minimum required 4-hour performance period during an event**
- ◆ **Fatigue Factor**
 - ◆ **The Fatigue Factor derate was applied to address concerns that fatigue may occur if SCRs are deployed frequently**

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