

**ICC Part 455 Renewable Portfolio Standard Compliance Worksheet for Determining and Reporting
Renewable Energy Credits (RECs) and Alternative Compliance Payments (ACPs) for the Compliance Period**

Instructions: Respondent fills in the bright yellow-highlighted cells. Any pre-existing values in the yellow-highlighted cells are for illustrative purposes, only.

Name of Respondant:	Caterpillar Inc						
Compliance Period:	From 06/01/2013 to 05/30/2014				All tests must be TRUE for compliance:		
Report Date:		(Due by September 1, 2014)			Are all tests true?	YES	↓
Worksheet to Plan Compliance					Retired RECs used for the Compliance Period Section 455.120(a)(3) and 455.120(b)		
Service Territory	Ameren	ComEd	Total				
Total Usage (MWH)	581,148	0	Section 455.120(a)(1)				
minus (-) Exempt Usage (MWH)	581,148	0	Section 455.120(d)				
equals (=) Non-Exempt Usage (MWH)	0	0	Section 455.120(a)(2)				
Total RPS Requirement (%) *	8%	8%					
Total RPS Requirement (MWH)	0	0					
Wind Requirement (%) *	60%	60%					
Solar PV Requirement (%) *	0%	0%			0	PJM-GATS Wind	
Wind Requirement (MWH)	0	0			0	PJM-GATS Solar PV	
Solar PV Requirement (MWH)	0	0			0	PJM-GATS Other	
Min ACP (MWH equivalent) = Max RECs = Total RPS * 50% (MWH)	0	0			+		
ACP (MWH equiv) for Wind Requirement	0	0			0	M-RETS Wind	
ACP (MWH equiv) for Solar Requirement	0	0			0	M-RETS Solar PV	
ACP (MWH equiv) for Other Requirement	0	0			0	M-RETS Other	
Total ACP (MWH equiv)	0	0	0		=		
Total RECs needed (MWH)	0	0	0	≤	0	Total RECs	TRUE
Min Wind RECs needed (MWH)	0	0	0	≤	0	Total Wind	TRUE
Min Solar PV RECs needed (MWH)	0	0	0	≤	0	Total Solar PV	TRUE
Max Other RECs needed (MWH)	0	0	0		0	Total Other	
ACP Rate (\$/MWH of Usage)**	\$1.4661	\$1.5923					
Computed ACP (\$)	\$0	\$0	\$0				
Less ACP overpayments from previous periods (if applicable)			\$0				
ACP Due (\$)			\$0				
Total ACP (MWH equiv) ≥ Min ACP (MWH equiv)	TRUE	TRUE	→				TRUE

Cogen Plant Production						
	Electric MWH	Steam kLbs	Steam MMBtu	Chilled Water Ton-hr	Chiller Steam Input	Fuel Nat Gas MMBtu
Jun	17,685	27,640	33,168	1,380,000	32,126	167,929
Jul	17,512	28,946	34,735	1,458,763	33,960	167,930
Aug	15,375	26,988	32,386	1,375,547	32,023	148,921
Sep	10,631	28,184	33,821	1,093,900	25,466	108,109
Oct	12,676	47,317	56,780	155,885	3,629	155,380
Nov	19,416	75,213	90,256		-	229,460
Dec	27,018	105,898	127,078		-	311,819
Jan	28,602	122,969	147,563		-	343,139
Feb	26,975	112,979	135,575		-	321,073
Mar	20,790	95,366	114,439		-	252,992
Apr	13,739	59,541	71,449		-	169,230
May	13,643	39,083	46,900		-	163,105
Total	224,062	770,124	924,149	5,464,095	127,204	2,539,087

MMBTUs	Electric Output	Steam Output (not for chilling)	Steam Output (chilling)	Numerator	Denominator	Numerator / Denominator	FERC Form 556 Parameters
Topping cycle operating value	764,500	924,149	127,204	1,051,353	1,815,852	57.9% >=	Complies with 5.0% operating standard
		x 0.5	x 0.5			57.9% >=	15.0%
Topping cycle efficiency value	764,500	462,074	63,602	1,290,176	2,539,087	50.8% >=	Complies with 42.5% efficiency standard
		x 1	x 1				
Standard efficiency	764,500	924,149	127,204	1,815,852	2,539,087	71.5%	n/a
Constants	3.412 BTU/Wh or MMBTU/MWH 1202 BTU/Lb of Steam (250 PSI Saturated) 1.20 MMBTU/kLbs of Steam (250 PSI Saturated) 1164 BTU/Lb of Steam (15 PSI Saturated) 1.16 MMBTU/kLbs of Steam (15 PSI Saturated) 20 Lbs/Ton-hr - Absorption Chiller average conversion efficiency						

Reporting Period June 1,2013 through May 31,2014
 Caterpillar - MISO CPNode (Ameren Service Territory)
 kwh

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 Appendix A
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Jun	67,309,119	
Jul	65,928,291	
Aug	71,010,453	Jun- Aug Retail electricity purchased from (ARES) Ameren Energy Marketing
Sep	67,374,240	
Oct	69,759,189	
Nov	67,704,011	
Dec	58,579,710	
Jan	64,869,205	
Feb	58,006,028	
Mar	64,401,976	
Apr	63,473,152	
May	66,980,628	Sep - May Wholesale electricity from MISO with AEM as Agent for Caterpillar ARES
Total	785,396,002	

Total Sep-May **581,148,139**

	Cogen Plant Production				Fuel
	Electric MWH	Steam kLbs	Steam MMBtu	Chilled Water Ton-hr	Nat Gas MMBtu
Jun	17,685	27,640	33,168	1,380,000	167,929
Jul	17,512	28,946	34,735	1,458,763	167,930
Aug	15,375	26,988	32,386	1,375,547	148,921
Sep	10,631	28,184	33,821	1,093,900	108,109
Oct	12,676	47,317	56,780	155,885	155,380
Nov	19,416	75,213	90,256		229,460
Dec	27,018	105,898	127,078		311,819
Jan	28,602	122,969	147,563		343,139
Feb	26,975	112,979	135,575		321,073
Mar	20,790	95,366	114,439		252,992
Apr	13,739	59,541	71,449		169,230
May	13,643	39,083	46,900		163,105
Total	224,062	770,124	924,149	5,464,095	2,539,087

MMBTUs	Electric Output	Steam Output (not for chilling)	Chilling Output	Numerator	Denominator	Numerator / Denominator	FERC Form 556 Parameters
Topping cycle operating value	764,500	924,149	65,569	989,718	1,754,217	56.4% >=	Complies with 5.0% operating standard
		x 0.5	x 0.5			56.4% >=	15.0%
Topping cycle efficiency value	764,500	462,074	32,785	1,259,359	2,539,087	49.6% >=	Complies with 42.5% efficiency standard
		x 1	x 1				
Standard efficiency	764,500	924,149	65,569	1,754,217	2,539,087	69.1%	n/a
Constants	3.412 BTU/Wh or MMBTU/MWH 12000 BTU/ton-hr of chilling, or 0.0120 MMBTU/ton-hr of chilling						