AmerenIP Exhibit 1.5 System Voltage and Loading Summary
Projected 2007 Peak Loading Conditions

Table 1

Condition: Trip of Line 6102 and Marseilles 138/34.5 kV Transformer Outage

		Voltage (Per Unit)					
		Before Wedron Fox River Substation				**After Wedron Fox River Substation**	
Substation Location	Kv	Immediate Condition	Following Automatic Protective Device Actions	Following Manual System Restore (Marseilles Transformer Remains Out)		Immediate Condition	Following Automatic Voltage Adjustments
		#1	#2	#3		#4	
N. LaSalle	34.5	0.93	1.04	1.03		1.02	1.03
Ottawa	34.5	0.70	0	1.03		1.00	1.03
Marseilles	34.5	0.55	0	0.99		0.99	1.02
Wedron Fox River	34.5	0.50	0	0.96		1.00	1.03
Ottawa	12.47	0.68	0	1.03		1.00	1.03
Marseilles	12.47	0.51	0	1.00		0.99	1.02
N. Ottawa	12.47	0.52	0	1.00		1.01	1.04
Wedron	12.47	0.45	0	0.95	*	0.99	1.02
Newark	12.47	0.37	0	0.94	*	0.96	1.00

#1: N. LaSalle and Ottawa 138/34.5 kV transformers supply the Ottawa/Wedron/Marseilles area.
Due to the severe low voltages, these voltages are beyond the range of accurate calculation.
#2: 34.5 kV system protective relays open the N. LaSalle and Ottawa supply due to overloads.
#3: Restore the 34.5 kV system and loads in small increments to allow automatic voltage regulation equipment
(i.e., bulk supply transformer load tap changer) time to adjust.
#4: Reflects conditions for approximately the first 30 seconds until automatic voltage adjustments begin.
N. LaSalle, Ottawa and Wedron Fox River 138/34.5 kV transformers supply the Ottawa/Wedron/Marseilles area.
* Less than 0.96 minimum criteria for bulk supply transformer outage.

AmerenIP Exhibit 1.5 System Voltage and Loading Summary
Projected 2007 Peak Loading Conditions

Table 2

Condition: Trip of Line 6102 and Marseilles 138/34.5 kV Transformer Outage

		Before Wedron Fox River Sub.			**After Wedron Fox River Sub.**		
Substation Location	MVA Emergency Rating	MVA Loading	Percent of Rating		MVA Loading	Percent of Rating	
N. LaSalle Trf. #4	101.6	45.7	45%		38.1	38%	
Ottawa Trf. #3	122.8	119.8	98%		75.0	61%	
Marseilles Trf #3	129.6	0	0%		0	0%	
Wedron Fox River Trf. #1	135.0	N/A			50.2	37%	
138 kV Line 1516B	143.0	127.6	89%		98.0	69%	
N. LaSalle Line 3358	54.1	25.7	48%		16.8	31%	
Severs Corner Sw. Sta. Line 3358/3412	31.7	25.1	79%		16.4	52%	
Ottawa Line 3412	31.7	13.7	43%		13.4	42%	
Ottawa Line 3359	40.4	37.4	93%		5.0	12%	
Ottawa Line 3360	55.0	52.9	96%		33.7	61%	
Marseilles Line 3360	93.9	25.4	27%		7.5	8%	
Marseilles Line 3411	47.8	6.1	13%		12.5	26%	

All transformers are 138/34.5 kV.

AmerenIP Exhibit 1.5 System Voltage and Loading Summary
Projected 2007 Peak Loading Conditions

Table 3

Condition: Trip of Line 1516 and Ottawa 138/34.5 kV Transformer Outage

		Voltage (Per Unit)					
		Before Wedron Fox River Substation				**After Wedron Fox River Sub.**	
Substation Location	Kv	Immediate Condition	Following Automatic Protective Device Actions	Following Manual System Restore (Ottawa Transformer Remains Out)		Immediate Condition	Following Automatic Voltage Adjustments
		#1	#2	#3		#4	
N. LaSalle	34.5	0.99	1.03	1.03		1.00	1.03
Ottawa	34.5	0.75	0	0.96		0.94	0.99
Marseilles	34.5	0.87	0	1.03		0.99	1.03
Wedron Fox River	34.5	0.72	0	0.95		0.98	1.03
Ottawa	12.47	0.73	0	0.96		0.94	0.99
Marseilles	12.47	0.86	0	1.03		0.99	1.04
N. Ottawa	12.47	0.68	0	0.95	*	0.95	1.01
Wedron	12.47	0.67	0	0.93	*	0.96	1.01
Newark	12.47	0.67	0	0.94	*	0.95	1.01

#1: N. LaSalle and Marseilles 138/34.5 kV transformers supply the Ottawa/Wedron/Marseilles area.
Due to the severe low voltages, these voltages are beyond the range of accurate calculation.
#2: 34.5 kV system protective relays open the N. LaSalle and Marseilles supply due to overloads.
#3: Restore the 34.5 kV system and loads in small increments to allow automatic voltage regulation equipment
(i.e., bulk supply transformer load tap changer) time to adjust.
#4: Reflects conditions for approximately the first 30 seconds until automatic voltage adjustments begin.
N. LaSalle, Marseilles and Wedron Fox River 138/34.5 kV transformers supply the Ottawa/Wedron/Marseilles area.
* Less than 0.96 minimum criteria for bulk supply transformer outage.

AmerenIP Exhibit 1.5 System Voltage and Loading Summary
Projected 2007 Peak Loading Conditions

Table 4

Condition: Trip of Line 1516 and Ottawa 138/34.5 kV Transformer Outage

		Before Wedron Fox River Sub.			**After Wedron Fox River Sub.**		
Substation Location	MVA Emergency Rating	MVA Loading	Percent of Rating		MVA Loading	Percent of Rating	
N. LaSalle Trf. #4	101.6	52.7	52%		42.5	42%	
Ottawa Trf. #3	122.8	0.0	0%		0.0	0%	
Marseilles Trf #3	129.6	114.3	88%		83.4	64%	
Wedron Fox River Trf. #1	135.0	N/A			38.0	28%	
138 kV Line 6102	143.0	123.0	86%		85.5	60%	
N. LaSalle Line 3358	54.1	33.6	62%		22.2	41%	
Severs Corner Sw. Sta. Line 3358/3412	31.7	32.3	102%		21.5	68%	
Ottawa Line 3412	31.7	11.5	36%		10.2	32%	
Ottawa Line 3359	40.4	10.7	26%		7.2	18%	
Ottawa Line 3360	55.0	34.2	62%		25.8	47%	
Marseilles Line 3360	93.9	63.4	68%		53.6	57%	
Marseilles Line 3411	47.8	32.8	69%		12.7	27%	

All transformers are 138/34.5 kV.