

JACKSON ENERGY COOPERATIVE CORPORATION  
PLAN AND PROCEDURES

**APPENDIX E**

**Mandatory Load Curtailment Procedure**

**Objective:**

To reduce demand on the cooperative system during an electrical energy shortage by, as a last alternative, interrupting firm consumer load in 5% intervals up to a total of 20% of the system load.

**Criteria:**

Only upon declaring a statewide State of Emergency Order from the Governor of Kentucky, power supplier(s) system operator can request the cooperative to enact this procedure.

**Procedure:**

Immediately upon notification from the Power Supplier's System Operator to enact Mandatory Load Reduction, the cooperative will dispatch personnel to the locations as outlined on the following sheets. Based upon the amount of load shed requested the necessary reduction or interruption of service will be achieved. The following list will enable operations personnel to reduce system load by 5% intervals. Each interval has three, two hour cycles enabling 20% curtailment in 6-hour cycles.



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PUBLIC SERVICE COMMISSION  
OF KENTUCKY  
EFFECTIVE  
By Stephanie Hunter  
Executive Director

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**JAN 14 2018**  
 KENTUCKY PUBLIC  
 SERVICE COMMISSION

FOR ENTIRE SERVICE AREA  
 P.S.C. No. 5  
 2<sup>nd</sup> Revised Sheet No. 137  
 Canceling P.S.C. No. 5  
 1<sup>st</sup> Revised Sheet No. 137

**JACKSON ENERGY COOPERATIVE CORPORATION**  
**PLAN AND PROCEDURES**

**Mandatory Load Reduction Priority**  
**Cycle 1:**

5%	<u>Substation</u>	<u>Feeder Number and Description</u>	<u>MW Load Reduction</u>
	Pine Grove 1	4 – Maple Grove	11.71
	Brodhead	2 – Orlando	2.08
<b>Total MW reduction</b>			<b>13.79</b>

10%	<u>Substation</u>	<u>Feeder Number and Description</u>	<u>MW Load Reduction</u>
	Pine Grove 1	1 – To London	9.15
	Goose Rock	1 – Garrard	4.51
<b>Total MW reduction</b>			<b>13.66</b>

15%	<u>Substation</u>	<u>Feeder Number and Description</u>	<u>MW Load Reduction</u>
	West London 2	4 – Cold Hill	10.82
	Laurel Industrial 1	3 – Liberty Circle	2.72
<b>Total MW reduction</b>			<b>13.54</b>

20%	<u>Substation</u>	<u>Feeder Number and Description</u>	<u>MW Load Reduction</u>
	Pine Grove 2	2- Riverbend	8.16
	Fall Rock	3 - Fogertown	4.88
	Oneida	4 - Spurlock	0.82

**Total MW reduction** 13.80

**Total Cycle 1 Load Reduction** 54.85

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**Cycle 2:**

<b>5%</b>	<b><u>Substation</u></b>	<b><u>Feeder Number and Description</u></b>	<b><u>MW Load Reduction</u></b>
	West London 2	3 - Sublimity	7.57
	Maretburg	1 - Maretburg	4.03
	Maretburg	3 - Sand Springs	2.85
<b>Total MW reduction</b>			<b>14.45</b>

<b>10%</b>	<b><u>Substation</u></b>	<b><u>Feeder Number and Description</u></b>	<b><u>MW Load Reduction</u></b>
	Pine Grove 2	3 - Locust Grove	5.93
	Greenbriar	2 - Island Creek	3.15
	Greenbriar	4 - Fox Hollow	2.49
	Fall Rock	2 - Greenbriar	1.93
<b>Total MW reduction</b>			<b>13.5</b>

<b>15%</b>	<b><u>Substation</u></b>	<b><u>Feeder Number and Description</u></b>	<b><u>MW Load Reduction</u></b>
	Laurel Industrial 1	5 - London	4.76
	Laurel Industrial 2	6 - Sinking Creek	3.85
	Laurel Industrial 2	4 - Hawk Creek	4.43
	Oneida	1 - Road Run	0.83
<b>Total MW reduction</b>			<b>13.87</b>

<b>20%</b>	<b><u>Substation</u></b>	<b><u>Feeder Number and Description</u></b>	<b><u>MW Load Reduction</u></b>
	Brodhead	1 - Brindle Ridge	4.28
	Bush	1 - Marydale	4.02
	Three Links	3 - Disputanta	3.85
	Fall Rock	1 - Oneida	13.83

**Total MW reduction**

**Total Cycle 2 Load Reduction**

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APPENDIX F

(N)

Under Frequency Load Shed Plan

**Objective:**

To reduce demand on the cooperative system, during an electrical shortage, by automatically shedding firm consumer load to ensure the stability of the regional transmission system.

**Criteria:**

This automated plan will be implemented when the system frequency drops from 60 Hertz to 59.5 Hertz. Reference NERC Reliability Standard PRC-006 and PRC-007.

**Procedure:**

Upon the system frequency dropping from 60 Hertz to 59.5 Hertz, automated relays in the designated substation will begin de-energizing designated distribution feeders in order to reduce load. There are six intervals of load reduction with each interval representing 5% of the total system load of the cooperative. The total load reduction represents 30% of the total system load of the cooperative. The following is a list of the designated distribution substations and feeders.



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By: Stephanie Dumb  
Executive Director

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**Under Frequency Load Shedding**

**Step 1 Reductions:**

<u>Station</u>	<u>Fdr</u>	<u>Feeder Name</u>	<u>Load</u>
Campground	2	Campground School	6.24
East Bernstadt	1	Hazel Green	5.82
Keavy 1	1	Rooks Branch	1.63
<b>Total Load</b>			13.7 MW

**Step 2 Reductions:**

<u>Station</u>	<u>Fdr</u>	<u>Feeder Name</u>	<u>Load</u>
Campground	4	Tom Cat Trail	4.78
Keavy 2	4	Bald Rock	4.59
Tyner	3	Egypt	4.05
Oneida	5	Wildcat	0.45
<b>Total Load</b>			13.9 MW

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**Step 3 Reductions:**

<u>Station</u>	<u>Fdr</u>	<u>Feeder Name</u>	<u>Load</u>
Keavy 1	2	Highway 312 East	3.81
Conway	1	Copper Creek	3.80
Maplesville	1	McWhorter	3.79
Millers Creek	2	Youth Haven	2.37
<b>Total Load</b>			13.8 MW

**Step 4 Reductions:**

<u>Station</u>	<u>Fdr</u>	<u>Feeder Name</u>	<u>Load</u>
Three Links	1	Clover Bottom	3.70
Booneville	2	Scoville	3.46
Campground	1	Bush	3.42
Beattyville	2	St Helens	3.07
<b>Total Load</b>			13.7 MW

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**Step 5 Reductions:**

<u>Station</u>	<u>Fdr</u>	<u>Feeder Name</u>	<u>Load</u>
Keavy 2	3	Level Green	3.41
Eberle	3	Highway 490	3.35
Beattyville	3	Heidelberg	3.33
Tyner	1	Gray Hawk	3.22
Tyner	4	Annville	0.54

**Total Load** 13.9 MW

**Step 6 Reductions:**

<u>Station</u>	<u>Fdr</u>	<u>Feeder Name</u>	<u>Load</u>
Tyner	1	Gray Hawk	3.22
Laurel Industrial 1	2	Industrial Park	3.18
Millers Creek	1	Cobb Hill	2.61
Eberle	2	Peoples	2.51
Maplesville	3	Slate Lick	2.20

**Total Load** 13.7 MW

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