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NEW APPLICATION

TRICO
CURTAILMENT PLAN
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TRICO

ELECTRIC LOAD CURTAILMENT PLAN

CAPACITY OR FUEL SHORTAGE

1.0 INTRODUCTION:

Conditions could exist on Arizona Electric Power Cooperative's (AEPCO) system in which: (1) The power supply would be insufficient to carry the load during peak periods. This would be a Generation Capacity situation and would require curtailment power use by customers according to the Arizona Electric Power Cooperative's Capacity Curtailment Guidelines. (2) The availability of fuel for generation would be insufficient to operate Arizona Electric Power Cooperative's generators. This would be a Fuel Shortage situation and would require curtailment of power use by customers according to the Fuel Shortage Curtailment Guidelines. Should either of these conditions seem imminent, AEPCO will notify all member cooperatives who will reduce all convenience uses of electricity within their facilities and will make a public appeal for voluntary curtailment of electric consumption by their customers. If voluntary curtailment results in insufficient load reduction to meet the emergency, the Arizona Corporation Commission (ACC) has directed electric utilities to institute mandatory curtailment, according to guidelines in R14-2-208E, Chapter 2, and Title 14.

NOTE: The objective in a Fuel Shortage Curtailment is to reduce kWh in order to conserve fuel.

1.1 NOTIFICATION OF CURTAILMENT:

Should either voluntary or involuntary curtailment become necessary, AEPCO will notify TRICO dispatch, as outlined in the notification flow diagram. TRICO dispatch will immediately notify the TRICO Key Employees and Management Team and The Arizona Corporation Commission. AEPCO will then activate their respective curtailment plans.

1.2 CUSTOMER LOAD DEFINITIONS

All Customer loads have been classified into five categories:

- 1.2.1 MAJOR USER (M) - Those customers having peak demands of 350kW+, with a substantial number of employees or other special circumstances which make appropriate their scheduling of blackouts or curtailments at intervals or for durations differing from those applicable to other customers.
- 1.2.2 ESSENTIAL (E) - Customers with facilities that are necessary for the general public's health and safety; such as hospitals, sewage, national defense, police, fire, etc. (These circuits will not be intentionally interrupted.)
- 1.2.3 CRITICAL (C) - Non-residential Customers for whom total curtailment would create a grave hazard to employees, or the public, or non-residential customers who would suffer excessive damage to equipment, material, or perishable items. (These circuits will not be intentionally interrupted, but the critical consumer will be required to reduce or curtail his load to the critical load level.) Those that have back up generation will be asked to go on back up generation until notified that the emergency has ended.
- 1.2.4 CURTAILMENT WITH NOTICE -Customers who qualify as critical, essential, or major user, but who, with as much notice as possible depending on the severity of the emergency, can take a 100 percent curtailment. These circuits are tabulated in the Circuit Curtailment Rotation List, "Attachment C" and are at the end of the rotation list.
- 1.2.5 CURTAILMENT WITHOUT NOTICE - All Customers not covered by other categories. All known Essential Customers have been identified and all Major Customers will have been contacted once a year to ascertain the classification of their loads. This information has been tabulated in "Attachment A".

2.0 LOAD CURTAILMENT

2.1 VOLUNTARY CURTAILMENT:

(Generation Capacity) or (Fuel Shortage-Steps 1,2, and 3). If conditions allow for advanced warning, TRICO will ask the general public for voluntary curtailment. Upon instruction from the Supervisor On Call, information on curtailment will be made available to the general public through the news media and the TRICO office. TRICO Dispatch will give notices. In addition, TRICO Dispatch will call customers from "Attachment B" for voluntary curtailment.

2.2 INVOLUNTARY LOAD CURTAILMENT: (Generation Capacity or Fuel Supply - Step 4)-Should the voluntary curtailment result in an insufficient reduction in load, AEPCO will determine the amount of additional load that must be curtailed and inform TRICO Dispatch. AEPCO will then curtail TRICO's load as required per the Circuit Rotation Curtailment List, "Attachment C". The curtailed load will be in 10%, 20% and 30% increments, depending on the condition of AEPCO's system. The Circuit Curtailment Rotation List, "Attachment C", is broken down into 10 groups. Each group represents a 10% reduction in load, if curtailed. During a 10% load curtailment, each of the 10 groups will be interrupted for a specific duration. Interruptions will rotate through each of the 10 groups until the emergency is discontinued by AEPCO. When a 20% level of load curtailment is required by AEPCO, groups of 2 will rotate simultaneously for a specified duration. (ex., Groups 1 and 2 together, then groups 3 and 4 together, etc.) Interruptions will rotate through each group of 2 until the emergency is discontinued. When a 30% level is required by AEPCO, groups of 3 will rotate simultaneously. (ex., Groups 1, 2 and 3 together, then 4, 5 and 6 together, etc.) Interruptions will rotate through each group of 3 until the emergency is discontinued by AEPCO.

2.3 EMERGENCY CURTAILMENT:

If TRICO has no advance warning of a curtailment condition, AEPCO will initiate the emergency load curtailment plan. This will be done by supervisory control at the level required. These circuits will remain out of service until the transition from the emergency schedule to the planned schedule can be made, as the

necessary operating manpower is available. AEPCO will transition to the Circuit Curtailment Rotation List, "Attachment C" as soon as possible.

2.4 **PROCEDURES FOR THE PLANNED GENERATION CAPACITY**

CURTAILMENT:

All classes of customers will be curtailed as equitably as possible. Circuits that can take a normal rotation are shown on the Circuit Curtailment Rotation List. Circuits having customers with critical essential loads that exclude them from rotation will be removed from the Circuit Curtailment Rotation List.

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3.0 FUNCTIONAL RESPONSIBILITIES

3.1 AEPCO

3.1.1 Responsibilities:

Monitors the electric system to insure that generation and transmission are adequate to meet system load requirements and that the AEPCO fuel supply is stable. Analyzes generation, transmission, and/or fuel supply deficiencies and determines the magnitude and duration of load curtailment.

3.1.2 Generation Capacity Curtailment:

3.1.2.1 Responsible for initiating emergency load curtailment plan

To retain system stability and frequency.

3.1.2.2 Notifies the TRICO Dispatch that an emergency exists and that forecasted generation is insufficient to meet forecasted load. Provides dispatch with the magnitude of necessary curtailment and estimated duration.

3.1.2.3 Rotates circuits and consumers not classified as essential or critical on an equitable basis (rotation time to be determined by factors such as: supervisory control, type of load, travel time between switching points, etc.)

3.1.3 Fuel Shortage Curtailment:

3.1.3.1 Keeps TRICO Dispatch informed of the fuel inventory; i.e., 90 day supply (Step 1), 45 day supply (Step 2), and 30 day supply (Step 3).

3.1.3.2 Notifies TRICO Dispatch daily of the fuel supply after it reaches Step 3 (30 day supply) level.

3.1.3.3 Initiates action necessary to put Fuel Shortage Curtailment Plan (Step 4) into effect.

3.1.3.4 Notify TRICO Dispatch of necessary curtailment, amount of load that must be curtailed, and estimated duration.

3.1.3.5 Notify TRICO Dispatch when emergency or curtailment is over.

3.2 **TRICO DISPATCH**

3.2.1 Responsibilities:

3.2.1.1 Responsible for efficiently implementing all phases of TRICO's approved electric curtailment plan during electric Curtailment.

3.2.1.2 When an emergency exists (Generation Capacity Curtailment), immediately notifies each of the following, informing them of the magnitude and the anticipated duration of the curtailment:

1. Supervisor On Call
2. Cooperative Management Team
3. Arizona Corporation Commission

3.2.1.3 Handle consumer notifications:

1. Major Use Consumers
2. Critical Load Consumers
3. Essential Load Consumers
4. Curtailment with Notice Customers

3.2.1.4 Insure that proper people are available to:

1. Physically accomplish routine and emergency switching
2. Perform curtailment logging.

3.2.1.5 Briefs the General Manager and the Board concerning the information disseminated to the public.

3.3 **DIRECTOR OF CURTAILMENT**

3.3.1 Responsibilities:

3.3.1.1 Responsible for seeing that TRICO has an approved and up-to-date electric curtailment plan.

3.3.1.2 Responsible for seeing that all involved TRICO personnel understand the electric curtailment plan and are trained in its use.

3.4 **SUPERVISOR OF CALL**

3.4.1 Responsibilities:

3.4.1.1 Reviews content of the Communications Coordinator's news releases prior to distribution to Insure consistency with current curtailment situation.

3.4.1.2 Notifies those listed in 3.2.1.4 above when the curtailment period is over.

3.4.1.3 Responsible for seeing that the permanent reports, files, and rotation logs are kept on all curtailment activities.

3.4.1.4 Insure that TRICO Dispatch keeps an accurate log of all circuit interruptions during curtailments and forwards copies to the Director of Curtailment.

- a. Develops a sub-system electric curtailment plan under the direction of the Director of Curtailment.

3.4.1.5 Insure that all consumers involved in the curtailment are treated equitably.

3.5 COMMUNICATIONS COORDINATOR

3.5.1 Responsibilities:

3.5.1.1 Receives notice from TRICO Dispatch that:

1. Fuel supply has reached Steps 1, 2, 3, or 4.
2. An emergency exists. The magnitude of the curtailment (Generation Capacity), and expected duration.

3.5.1.2 Keeps the public informed of electric curtailment, as instructed by Cooperative management.

3.5.1.3 Distributes news releases to area news media and appropriate TRICO personnel.

3.5.1.4 Prepares and maintains a supply of announcements which may be distributed to the media when notified by TRICO Dispatch.

3.5.1.5 Prepares and handles distribution of any newspaper advertisements required during a curtailment.

4.0

TRICO Curtailment Notification Personnel List

Attachment A - TRICO Curtailment Notification Diagram

Attachment B – Customer List

Attachment C – Circuit Curtailment Rotation List

TRICO CURTAILMENT NOTIFICATION PERSONNEL LIST



