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CROCKETT TELEPHONE COMPANY, INC.
Disaster Recovery Plan

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1. PURPOSE

- 1.1 In the unlikely event of a disaster occurring that affects the long-term ability of CROCKETT TELEPHONE COMPANY, INC. (hereinafter referred to as "CROCKETT") to deliver traffic to a Competitive Local Exchange Carrier (CLEC), general procedures have been developed to hasten the recovery process. Since each location is different and could be affected by an assortment of potential problems, a detailed recovery plan is impractical. However, in the process of reviewing recovery activities for specific locations, some basic procedures emerge that appear to be common in most cases.
- 1.2 These general procedures should apply to any disaster that affects the delivery of traffic for an extended time period. Each CLEC will be given the same consideration during an outage and service will be restored as quickly as possible.
- 1.3 This document will cover the basic recovery procedures that would apply to every CLEC.
- 1.4 Notwithstanding the above, CROCKETT recognizes and agrees that restoration of service activities of either party may be superseded by the policies and procedures of the National Security Emergency Preparedness (NSEP) Telecommunications Service Priority (TSP) System contained in PART 64 of the Code of Federal Regulations.

2. SINGLE POINT OF CONTACT

- 2.1. When a problem is experienced, regardless of the severity, the Network Management Team (NMT) at CROCKETT will observe traffic anomalies and begin monitoring the situation. Controls will be appropriately applied to insure the stability of CROCKETT's network. In the event that a switch or facility node is lost, the NMT will attempt to circumvent the failure using available reroutes.
- 2.2. CROCKETT TELEPHONE'S NMT will remain in control of the restoration efforts until the problem has been identified as being a long-term outage. At that time, the NMT will contact CROCKETT's Directors and relinquish control of the recovery efforts. Even though the Directors may take charge of the situation, the NMT will continue to monitor the circumstances and restore traffic as soon as damaged network elements are revitalized.
- 2.3. The telephone number for CROCKETT is (731) 677-8181. CROCKETT's address is 563 Main Street, Friendship, TN 38034.

3. IDENTIFYING THE PROBLEM

- 3.1. During the early stages of problem detection, the NMT will be able to tell which CLECs are affected by the catastrophe. Further analysis and/or first hand observation will determine if the disaster has affected CLEC equipment only, CROCKETT's equipment only, or a combination of both. The initial restoration activity will largely be determined by the equipment that is affected.
- 3.2. Once the nature of the disaster is determined and after verifying the cause of the problem, the NMT will initiate reroutes and/or transfers that are jointly agreed upon by the affected CLECs' Network Management Center and CROCKETT's NMT. The type and percentage of controls used will depend upon available network capacity. Controls necessary to stabilize the situation will be invoked and CROCKETT will attempt to re-establish as much traffic as possible.
- 3.3. For long-term outages, recovery efforts will be coordinated by CROCKETT's Directors. Traffic controls will continue to be applied by the NMT until facilities are re-established. As equipment is made available for service, CROCKETT's Directors will instruct the NMT to begin removing the controls and allow traffic to resume.

4. SITE CONTROL

- 4.1. In scenario of total building loss, what likely will exist is a smoking pile of rubble. This rubble will contain many components that could be dangerous. It could also contain remains of any personnel on the premises at the time of the disaster. For these reasons, the local Fire Marshal, with police assistance, will control the site until the building is no longer a threat to surrounding properties and the companies have secured the site from the general public.
- 4.2. During this time, the majority owner of the building should be arranging for a demolition contractor to mobilize to the site with the primary objective of reaching the cable entrance facility for a damage assessment. The results of this assessment would then dictate immediate plans for restoration, both short term and permanent.
- 4.3. In a less catastrophic event, i.e., the building is still standing and the cable entrance facility is usable, the situation is more complex. The site initially will be controlled by local authorities, until the threat to adjacent property has diminished. Once the site is returned to the control of the companies, the following events should occur.
- 4.4. An initial assessment of the main building infrastructure systems (mechanical, electrical, fire and life safety, elevators, and others) will

establish building needs. Once these needs are determined, the majority owner should lead the building restoration efforts. There may be situations where the site will not be totally restored within the confines of the building. The companies must individually determine their needs and jointly assess the cost of permanent restoration to determine the overall plan of action.

- 4.5. Restoration trailers from each company will result in the need for designated space and installation order. This layout and control is required to maximize the amount of restoration equipment that can be placed at the site and to prioritize those placements.
- 4.6. Care must be taken in this planning to insure other restoration efforts have logistical access to the building. Major components of telephone and building equipment will need to be removed and replaced. A priority for this equipment must also be jointly established to facilitate overall site restoration. (Example: If the AC switchgear has sustained damage, this would be of the highest priority in order to regain power, lighting, and HVAC throughout the building.)
- 4.7. If the site will not accommodate the required restoration equipment, then the companies would need to quickly arrange with local authorities for street closures, rights of way, or other possible available options.

5. ENVIRONMENTAL CONCERNS

- 5.1. In the worse case scenario, many environmental concerns must be addressed. Along with the police and Fire Marshal, the state environmental protection department will be on site to monitor the situation.
- 5.2. Items of concern in a large Central Office (CO) building could include:
 - 5.2.1. *Emergency generator engine fuel supply.* Damage to the standby equipment and the fuel handling equipment could have created "spill" conditions that necessitate handling within state and federal regulations.
 - 5.2.2. *Asbestos containing materials that may be spread throughout the wreckage.* Asbestos could be in many components of building, electrical, mechanical, outside plant distribution, and telephone systems.
 - 5.2.3. *Lead and acid.* These materials could be present in potentially large quantities depending upon the extent of damage to the power room.

5.2.4. *Mercury and other regulated compounds resident in telephone equipment.*

5.2.5. *Other compounds produced by the fire or heat.*

- 5.3. Once a total loss event occurs at a large site, local authorities will control immediate clean up (water on the wreckage from the fire department) and site access.
- 5.4. At some point, the companies will become involved with local authorities in the overall planning associated with site clean up and restoration. Depending on the clean up approach taken, delays in the restoration of several hours to several days may occur.
- 5.5. In a less severe disaster, items listed above are more defined and can be addressed individually depending on the damage.
- 5.6. In each case, the majority owner should coordinate building and environmental restoration as well as maintain proper planning and site control.

6. EMERGENCY RESPONSE COORDINATION

- 6.1. When an emergency has been declared, CROCKETT's Directors and the NMT will convene to inventory the damage and initiate corrective actions. These experts have regional access to outside vendors with personnel and equipment and will assume control of the restoration activity anywhere in CROCKETT's serving area.
- 6.2. In the past, CROCKETT has been involved with restoration activities resulting from hurricanes, tornadoes, ice storms and floods. They have demonstrated their capabilities in directing recovery operations during outages due to natural causes, human error or equipment failures, and have an excellent record of restoring service as quickly as possible.
- 6.3. During a major disaster, the NMT may move emergency equipment to the affected location, direct recovery efforts of local personnel, and coordinate service restoration activities with the CLECs. They will attempt to restore service as quickly as possible using whatever means are available, leaving permanent solutions such as the replacement of damaged buildings or equipment for local personnel to administer.
- 6.4. Part of the CROCKETT Directors' responsibility, after temporary equipment is in place, is to support the NMT efforts to return service to the CLECs. Once service has been restored, CROCKETT's Directors will return control of the network to normal operational organizations. Any

long-term changes required after service is restored will be made in an orderly fashion and will be conducted as normal activity.

7. RECOVERY PROCEDURES

7.1. The nature and severity of any disaster will influence the recovery procedures. One crucial factor in determining how CROCKETT will proceed with restoration is whether or not CROCKETT's equipment is incapacitated. Regardless of whose equipment is out of service, CROCKETT will move as quickly as possible to aid with service recovery; however, the approach that will be taken may differ depending upon the location of the problem.

7.2. CLEC OUTAGE

7.2.1. For a problem limited to one CLEC (or a building with multiple CLECs), CROCKETT has several options available for restoring service quickly. For those CLECs that have agreements with other CLECs, CROCKETT can immediately start directing CROCKETT-originating traffic to a provisional CLEC for completion. This alternative is dependent upon CROCKETT having concurrence from the affected CLECs.

7.2.2. Whether or not the affected CLECs have requested a traffic transfer to another CLEC will not impact CROCKETT's resolve to re-establish traffic to the original destination as quickly as possible.

7.3. CROCKETT OUTAGE

7.3.1. Because CROCKETT's equipment has varying degrees of impact on the service provided to the CLECs, restoring service from damaged CROCKETT equipment is different. The outage will probably impact a number of Carriers simultaneously. However, CROCKETT's Directors will be able to initiate immediate actions to correct the problem.

7.3.2. A disaster involving any of CROCKETT's equipment locations could impact the CLECs, some more than others. A disaster at a CO would only impact the delivery of traffic to and from that one location, but the incident could affect many Carriers. If the CO is a Serving Wire Center (SWC), then traffic from the entire area to those Carriers served from that switch would also be impacted. A disaster that destroys a facility hub could disrupt various traffic flows, even though the switching equipment may be unaffected.

7.3.3. The NMC would be the first group to observe a problem involving CROCKETT's equipment. Shortly after a disaster, the NMC will begin applying controls and finding re-routes for the completion of as much traffic as possible. These reroutes may involve delivering traffic to alternate Carriers upon receiving approval from the CLECs involved. In some cases, changes in translations will be required. If the outage is caused by the destruction of equipment, then the CROCKETT Directors will assume control of the restoration.

7.3.4. Loss of a Central Office

When CROCKETT loses a CO, the CROCKETT Directors will:

- 7.3.4.1. Place specialists and emergency equipment on notice;
- 7.3.4.2. Inventory the damage to determine what equipment and/or functions are lost;
- 7.3.4.3. Move containerized emergency equipment and facility equipment to the stricken area, if necessary;
- 7.3.4.4. Begin reconnecting service for hospitals, police and other emergency agencies; and
- 7.3.4.5. Begin restoring service to CLECs and other customers.

7.3.5. Loss of a Central Office with Serving Wire Center Functions

The loss of a CO that also serves as a Serving Wire Center (SWC) will be restored as described in Section 7.3.4.

7.3.6. Loss of a Facility Hub

In the event that CROCKETT loses a facility hub, the recovery process is much the same as above. Once the NMT has observed the problem and administered the appropriate controls, the CROCKETT Directors will assume authority for the repairs. The recovery effort will include:

- 7.3.6.1. Placing specialists and emergency equipment on notice;
- 7.3.6.2. Inventorying the damage to determine what equipment and/or functions are lost;

7.3.6.3.Moving containerized emergency equipment to the stricken area, if necessary;

7.3.6.4.Reconnecting service for hospitals, police and other emergency agencies; and

7.3.6.5.Restoring service to CLECs and other customers. If necessary, CROCKETT will aggregate the traffic at another location and build temporary facilities. This alternative would be viable for a location that is destroyed and for which building repairs are required.

7.4. COMBINED OUTAGE (CLEC AND CROCKETT EQUIPMENT)

7.4.1. In some instances, a disaster may impact CROCKETT's equipment as well as the CLECs'. This situation will be handled in much the same way as described in Section 7.3.6. Since CROCKETT and the CLECs will be utilizing temporary equipment, close coordination will be required.

8. ACRONYMS

8.1. CO - Central Office (CROCKETT)

8.2. NMT – Network Management Team (CROCKETT)

8.3. CLEC - Competitive Local Exchange Carrier

8.4. SWC - Serving Wire Center (CROCKETT's switch)