UT Facilities
Power

UT Power Outage Proposed Plan for 13.2KV Underground Distribution
New University Center - Phase I and New Laurel Substation
Overview

- With the upcoming construction this year of the University Center project and the new Laurel substation, UTFS is producing a Power Outage plan to minimize the frequency and duration of power outages required on the 13.2KV underground distribution that will affect the building power at UT.

- The new University Center Phase I construction (demolition) of UC Parking Garage is set to start on the 17th of March, 2012.
- It is estimated that the UT contract to install the new Laurel substation will be finished by the middle of April 2012 and the new KUB substation (Dale Ave) being built to feed UT’s Laurel substation is schedule to be finished the end of April/May 2012.

- 12-16 hours to 5-6 hours
UT ELECTRICAL DISTRIBUTION SYSTEM IMPROVEMENTS - PHASE II

VREELAND ENGINEERS, INC.
SPARKMAN & ASSOCIATES ARCHITECTS, INC.

16 APRIL 2010
Definitions

- Switching Power Outage (SPO). – 5 minutes
  This power outage consists of operating a 13.2KV switch at the BUILDING. Each 13.2KV switch has 2 circuits, MAIN and BACKUP circuits, to feed the building.

- Power Outage (PO). – 4-6 hours
  This power outage consist of operating a 13.2KV switch at the SUBSTATION. This operation turns power off to the complete circuit (all buildings attached to the circuit).
Power Outage Plan

With the information available at this time, UTFS plans a minimum of 7 power outages between March 2012 and June 2012. The exact time schedule of these power outages will be determined by the information gathered through this meeting, coordinating with utility construction of the new University Center – Phase I project, and with the project progress of UT Laurel substation and KUB’s Dale Avenue substation project and related infrastructure.
Proposed Power Outages Dates

- Power Outage No. 1 [SPO]—Saturday March 17\textsuperscript{th}, 2012
  3:00am – 3:30am
- Power Outage No. 2 [PO]—Sunday March 18\textsuperscript{th}, 2012
  3:00pm-8:00pm
- Power Outage No. 3 [SPO]—Tuesday March 20\textsuperscript{th}, 2012
  3:00am – 3:30am
- Power Outage No. 4 [PO]—Saturday March 24\textsuperscript{th}, 2012
  1:00am – 7:00am
- Power Outage No. 5 [PO]—Saturday March 31\textsuperscript{th}, 2012
  1:00am – 7:00am
- Power Outage No. 6 [SPO]—TBD
- Power Outage No. 7 [SPO]—TBD
Power Outage No.1 - 13.2KV

- Power Outage type: SPO (switching power outage)
- Power Outage Date: March 17th, 2012 (Saturday)
- Power Outage Time: 3:00 am-3:30am
- Power Outage Duration: 5 Minutes (each building)
Buildings Affected:

- 812 Volunteer Blvd.
- Aconda Court
- Carolyn P Brown University Center
- James A. Haslam II Business Building
- Philander P. Claxton Education Building
- Stokely Management Center
- Student Counseling Services
- Temple Court
- University Center Parking Garage
- Black Cultural Center
- Dunford Hall
- Greve Hall
- Henson Hall
- Hess Hall
- Howard H. Baker Jr. Center for Public Policy
- International House
- John C Hodges Library
- Massey Hall
- Melrose Hall
- Tyson Alumni Center
Power Outage No.2 - 13.2KV

- Power Outage type: PO (power outage)
- Power Outage Date: March 18th, 2012 (Sunday)
- Power Outage Time: 3:00pm-8:00pm
- Power Outage Duration: 5 Hours
Building s Affected:

- 11th Street Parking Garage
- Panhellenic Building
- Blount Hall
- Carriage House
- Early Learning Center - Research & Practice
- Jessie W. Harris Building
- Senter Hall
- TANDEC--Textiles and Nonwovens Development Center
- Law Complex: George C Taylor Wing
- Law Complex: Law Library and Classroom Addition
- Hoskins Library Chiller Building
- James D Hoskins Library
- Frank G. Clement Hall
- Sophronia Strong Hall and Cafeteria
- White Avenue Parking Garage
Power Outage No. 3 -13.2KV

- Power Outage type: SPO (switching power outage)
- Power Outage Date: March 20th, 2012 (Tuesday)
- Power Outage Time: 3:00 am-3:30am
- Power Outage Duration: 5 Minutes (each building)
Buildings Affected:

- 812 Volunteer Blvd.
- Aconda Court
- Carolyn P Brown University Center
- James A. Haslam II Business Building
- Philander P. Claxton Education Building
- Stokely Management Center
- Student Counseling Services
- Temple Court
- University Center Parking Garage

- Black Cultural Center
- Dunford Hall
- Greve Hall
- Henson Hall
- Hess Hall
- Howard H. Baker Jr. Center for Public Policy
- International House
- John C Hodges Library
- Massey Hall
- Melrose Hall
- Tyson Alumni Center
Power Outage No.4 - 13.2KV

- Power Outage type: PO (power outage)
- Power Outage Date: March 24th, 2012 (Saturday)
- Power Outage Time: 1:00am-7:00am(p)
- Power Outage Duration: 6 Hours
Building Affected:

- Ayres Hall
- Dabney-Buehler Hall
- Dougherty Engineering Building
- Ferris Hall
- Perkins Hall
- Science and Engineering Building
- Science and Engineering Building (Chiller)
- South College
- Minkao (ECE)
Power Outage No. 5 - 13.2KV

- Power Outage type: PO (power outage)
- Outage Date: March 31\textsuperscript{th}, 2012 (Saturday)
- Power Outage Time: 1:00am-7:00am (p)
- Power Outage Duration: 6 Hours
Buildings Affected:

- Dougherty Engineering Building
- Ferris Hall
- Perkins Hall
- Alumni Memorial Building
- Austin Peay Building
- Burchfiel Geography Building
- Earth and Planetary Sciences Building
- Hesler Biology Building and Greenhouse
- Nielsen Physics Building
- Walters Life Sciences Building
- East Neyland Stadium
UTFS/Faculty-Research Bldgs

- UTFS currently updating database of “existing” conditions /requirements at research buildings for emergency power during scheduled power outages.
- Buildings being updated:
  - SERF
  - Walter Life Sciences
  - Austin Peay
  - Alumini Memorial Bldg
  - Dabney/BueHler
  - Hesler
  - Jessie Harris
  - Senter Hall
  - Blount Hall
UTFS Facilities Team

- Dave Irvin – Associate Vice-chancellor
- Roy Warwick – Utilities Services – Director
- Terry Ledford – Zone Maintenance – Director
- Tim Tomlinson - Assistant Director of Construction (Interim)
- Cesar Penalba PE – Electrical Engineer
  Electrical Services (Interim)

This presentation and approved scheduled power outage information will be posted on UTFS webpage as soon as they become final.