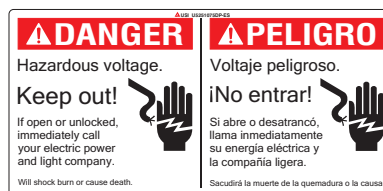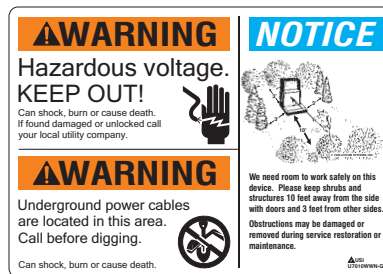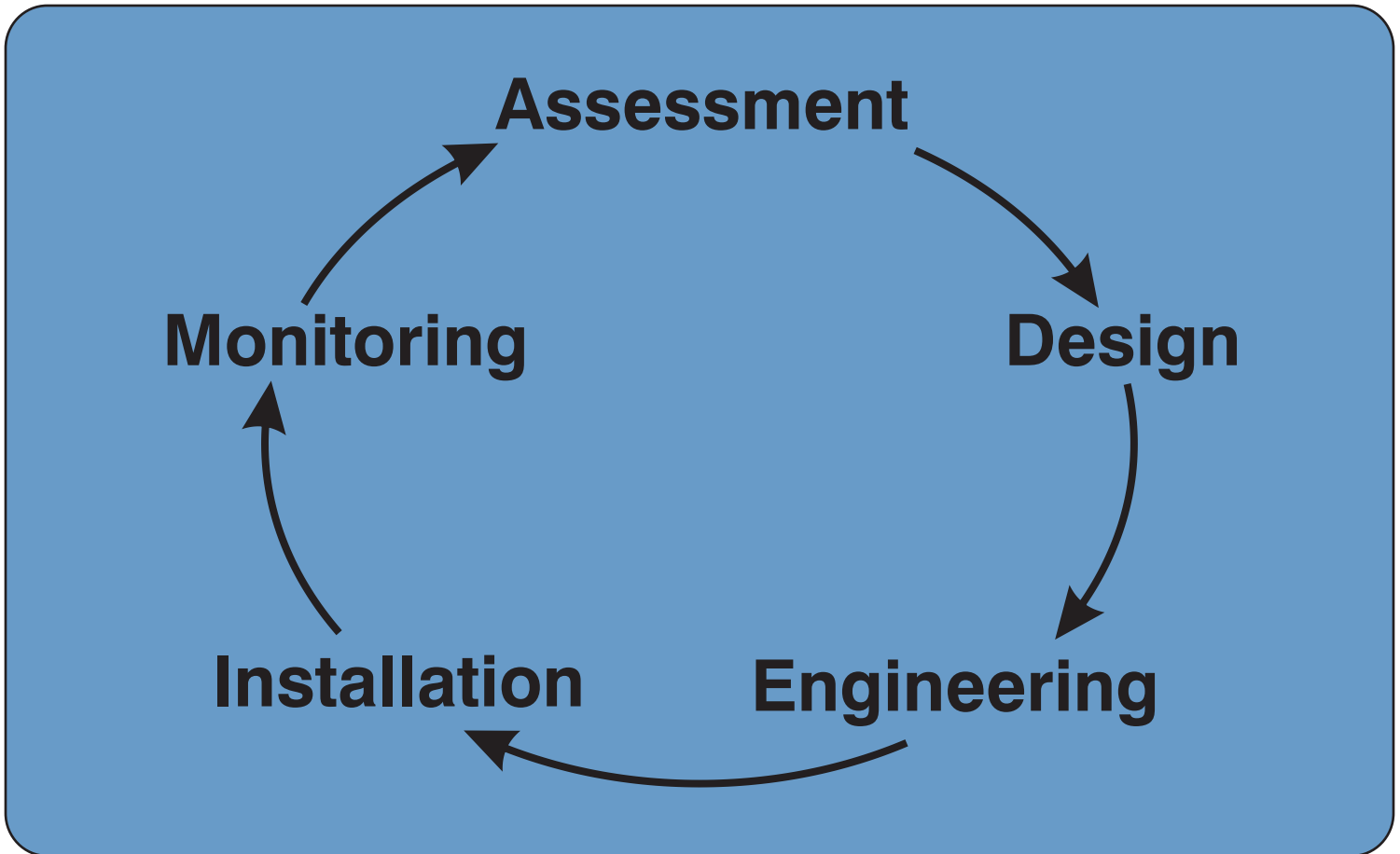# UTICOM SYSTEMS INC.

Graphics Compliance Monitoring Program

A Utility's catalog of Hazard Alerting Devices is the first line of defense against legal liability resulting from accidents. Signs, labels and tags alert the public, employees and contractors of potential environmental hazards.

Assessment

Design

Engineering

Installation

Monitoring

⚠ **WARNING**

Hazardous voltage inside.

Keep out!

Authorized personnel only.

Can shock, burn, cause severe injury or death.

Uticom Systems Inc.   U1420W-G-22R

**Uticom Systems, Inc.
109 Independence Way
Coatesville, PA 19320
610-857-2655
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www.uticom.net
graphics@uticom.net**

⚠ **DANGER**

**Hazardous voltage.
KEEP OFF!
Do not climb.**

Can shock, burn or cause death.

⚠USI

⚠ **WARNING**

Hazardous voltage.
KEEP OUT!

Can shock, burn or cause death.
If found damaged or unlocked call
your local utility company.

⚠ **WARNING**

Underground power cables
are located in this area.
Call before digging.

Can shock, burn or cause death.

NOTICE

We need room to work safely on this device. Please keep shrubs and structures 10 feet away from the side with doors and 3 feet from other sides.

Obstructions may be damaged or removed during service restoration or maintenance.

⚠USI
U7010WWN-G

⚠USI U52010*GP-ES

⚠ **DANGER**

Hazardous voltage.

Keep out!

If open or unlocked,
immediately call
your electric power
and light company.

Will shock burn or cause death.

⚠ **PELIGRO**

Voltaje peligroso.

¡No entrar!

Si abre o desatrancó,
llama inmediatamente
su energía eléctrica y
la compañía ligera.

Sacudirá la muerte de la quemadura o la causa.

UTICOM SYSTEMS, INC.   U6040D-G-TX

⚠ **DANGER**

HOLD TAG

Do Not Operate

Order No. _____

Switching Device No. _____

Circuit No. _____

Date and Time Tag Placed

Month	Day	Year	Time	am/pm

Person Attaching Tag _____

Phone No. _____

System Operator _____

Assessment

Uticom will provide an on-site infrastructure and environmental evaluation to assess existing hazard alerting devices.

Infrastructure Assessment

A Uticom Identification and Compliance Specialist will assess a representative collection of infrastructure to include transmission, substation and distribution equipment locations.

- Assess and evaluate current use of hazard alerting devices and associated risks.
- Provide coordination with applicable departments to ensure organizational consistency.
- Create a digital catalog of current infrastructure and hazard alerting devices.
- Conduct a needs based assessment identifying additional postings to augment protection.

Environmental Assessment

Uticom will provide a detailed review of the utility's regional environmental conditions, as well as the current performance of existing posting following these steps:

- Complete a weathering study focusing on temperature, precipitation and UV effects to aid in product engineering.
- Assess physical state of existing hazard alerting devices including signs, labels, tags and other postings.
- Conduct chemical/laboratory testing to determine product construction focusing on fading, adhesion failure and breaking.
- Environmental assessment aimed at decreasing carbon footprint through engineering more durable of postings.

Design

An electronic catalog of updated hazard alerting devices will be created based on industry standards.

⚠USI U8060WW-DP

⚠WARNING
Hazardous voltage inside.
Keep out!
Can shock, burn or cause death.
If found damaged or unlocked call your local electric utility company.
1-800-555-4321

NOTICE
We need room to work safely on this device. Please keep shrubs and structures 10 feet away from the side with doors and 3 feet from other sides.
Obstructions may be damaged or removed during service restoration or maintenance.

⚠ ¡ADVERTENCIA!
Alto Voltaje Adentro.
¡No Acercarse!
Puede electrocutar, quemar o causar la muerte.
Si encuentra dañado o sin seguro llame a la compañía de electricidad.
1-800-555-4321

⚠WARNING
Underground power cables are located in this area.
Before digging call your local electric utility company.
Can shock, burn or cause death.

AVISO
Para trabajar en este transformador sin riesgos necesitamos amplio espacio. Por favor mantenga arbustos o estructuras alejados a 10 pies de las puertas y a 3 pies alrededor.
Obstáculos podrán ser dañados o removidos durante restauración de electricidad o mantenimiento.
(Company Logo)

⚠ ¡ADVERTENCIA!
Cables subterráneos localizados en esta área.
Antes de excavar llame a la compañía de electricidad.
Puede electrocutar, quemar o causar la muerte.

Upper and lower case letters: ANSI Z535.2-2007 B3.3.9
The first letter of first word in a sentence is capitalized.
A single word in upper case letters provides emphasis.

Letter Size: ANSI Z535.2-2007 B3.3.13
Larger letter fonts enhance legibility at a greater viewing distance.

Separation of word message content: ANSI Z535.2-2007 B3.3.7
Using an outline format enhances readability.

Multi-lingual formats: ANSI Z535.2-2007 B5
Communicate the sign's hazard information to a broader audience.

Multi-hazard formats: ANSI Z535.2-2007 B6
Identify the additional hazard of underground cables with an additional message panel and symbols.

Illumination: ANSI Z535.2-2007 B3.12.1
All hazard alerting devices shall be displayed with illumination or retro-reflectorization.

Graphics Compliance Monitoring Program
Engineering, Installation and Compliance Monitoring

UTICOM SYSTEMS INC.

Engineering

A complete material specification will be developed based on the applicable industry standards in addition to the unique environmental and durability requirements of the utility.

- Material selection based on environmental assessment
- Unique part number and detailed material specification
- Catalog of specifications to ensure product integrity and manufacturing consistency
- Summary material descriptions for use by procurement

UTICOM SYSTEMS INC.

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U7000 Series

Technical Material Specification

Revised 2/14/12

1.0 **Base material:** 0.007" retro-reflective sheeting, road sign grade with enclosed optical lens elements, engineering grade. Printed using automotive grade solvent based ink, thickness dry .0004" +/- .0001" with 30 micron emulsion, applied using a 158 mesh screen. Short term UV cured inks are not acceptable.

2.0 **Over laminate:** 0.002" UV filtering PVDF over laminate from EI Dupont.

3.0 **Adhesive:** 0.0015" solvent based, permanent acrylic ASTM grade D 4956 Class 1 with .007" protective liner, kraft coated one side, with back slit. After 72 hours non removable intact. Water based adhesives or film liners are not acceptable in any part of this construction.

4.0 **Durability:** Minimum lifetime exterior durability of 20 -25 years with proper surface preparation. Defective materials will be replaced at no charge. Parts shall be date stamped with month and year of manufacture.

5.0 **Compliance:** ANSI Z535.(1-5)-2011 compliant. Vendor must monitor all applicable standards and update graphics as changes occur.

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Installation

Uticom will provide a detailed installation guide based on ANSI/NESC viewing distances.

- Installation matrix based on substation measurements
- Permanent installation marking kit
- Marking and development of 911 substation signs
- Detailed placement drawings for additional infrastructure

Substation Name	Gates	Total fencing	Sign Spacing	Number of signs
Ringgold Substation	1	300'	35'	16
Kingston Springs Substation	1	300'	35'	16
North Taylor Substation	2	1280'	35'	42
Dilworth Road Substation	1	700'	35'	25
Franklin Substation	1	200'	35'	11
Cantonville Substation	2	2600'	35'	80
Foster-Aiken Substation	1	700'	35'	25
Williston Road Substation	1	700'	35'	25

Monitoring

- Uticom will continually monitor the Utility's state of compliance.
- The first year's fee includes a 12 month needs based assessment to ensure continued compliance and include the following:
    - Automatic electronic updates when regulations or standards change
    - Annual audit report detailing status, independent lab testing, findings and/or recommendations
- An optional digital post-installation catalog is available.
- All future hazard alerting device design needs are included in the annual monitoring fee.

⚠ DANGER

Hazardous voltage.
KEEP OUT!

Will shock, burn or cause death.

If open or unlocked, immediately call your electric power and light company.

U80402-G   UTICOM SYSTEMS, INC.
800-548-5321