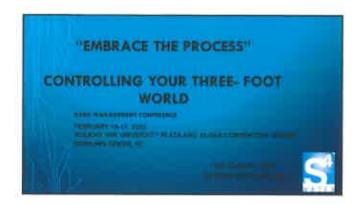
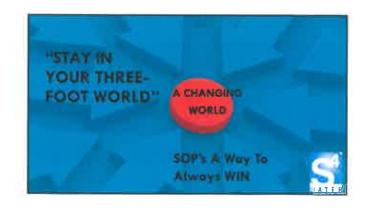
# **EXHIBIT 3**



	firm	brace th	e Process		
Develope	ent and Updat	ing Stamp	ято Орага	ing Process	net:
Jimme.			MATERIAL PROPERTY.	HILLIAM TO BE STORE THE	
Atmos			of lating \$20		
201	ACTION AND DESCRIPTION AND DES	( house	-	A PER SENSE	
					-
					- 4



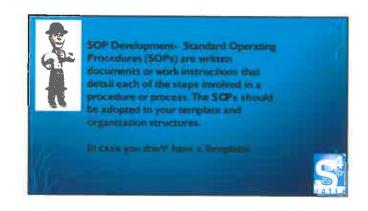




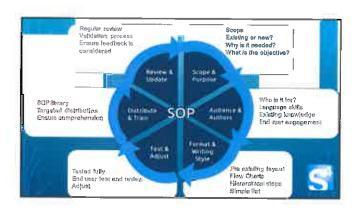




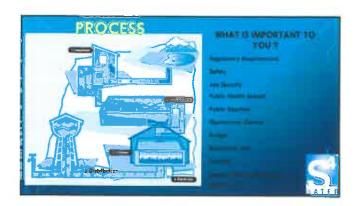






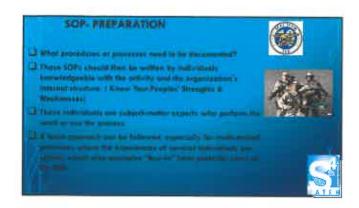






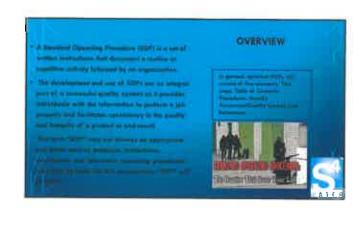


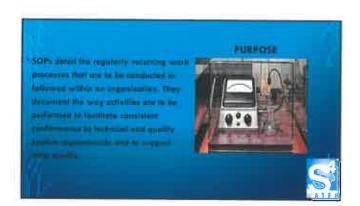


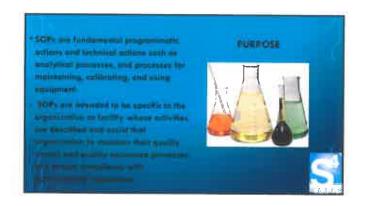


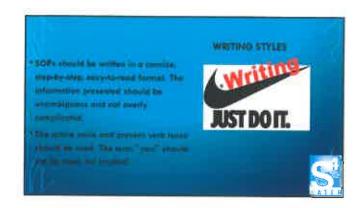


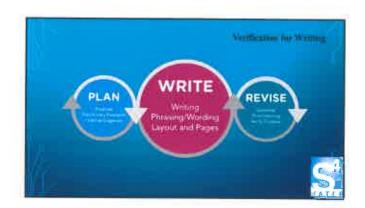












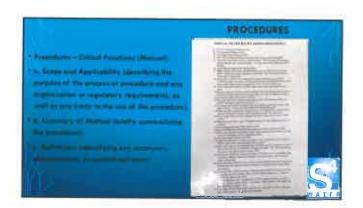


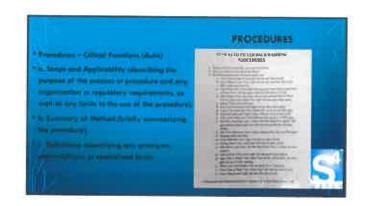








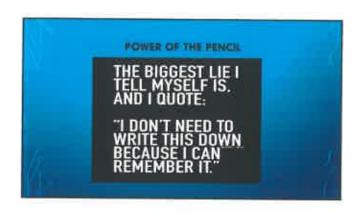






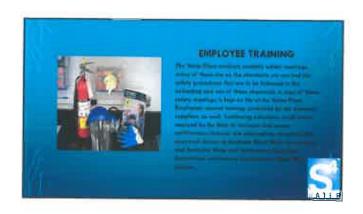










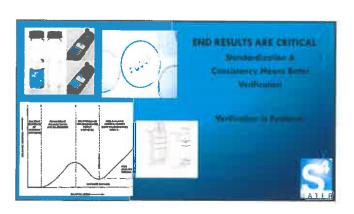








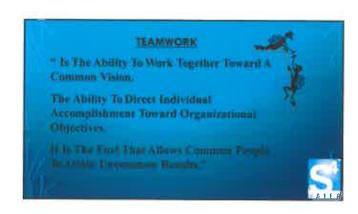
















# TEN TIPS FOR EFFECTIVELY DEALING WITH THE PUBLIC SERVICE COMMISSION

# PRESENTATION TO KRWA 2022 MANAGEMENT CONFERENCE

FEBRUARY 16, 2022

Gerald Wuetcher Stoll Keenon Ogden PLLC gerald.wuetcher@skofirm.com https://twitter.com/gwuetcher (859) 231-3017



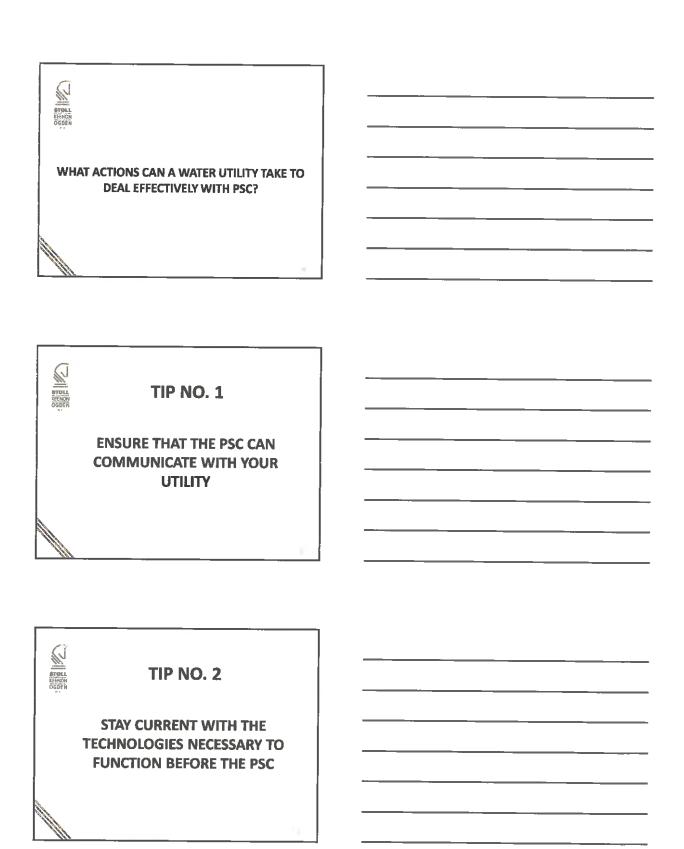
#### INTRODUCTION

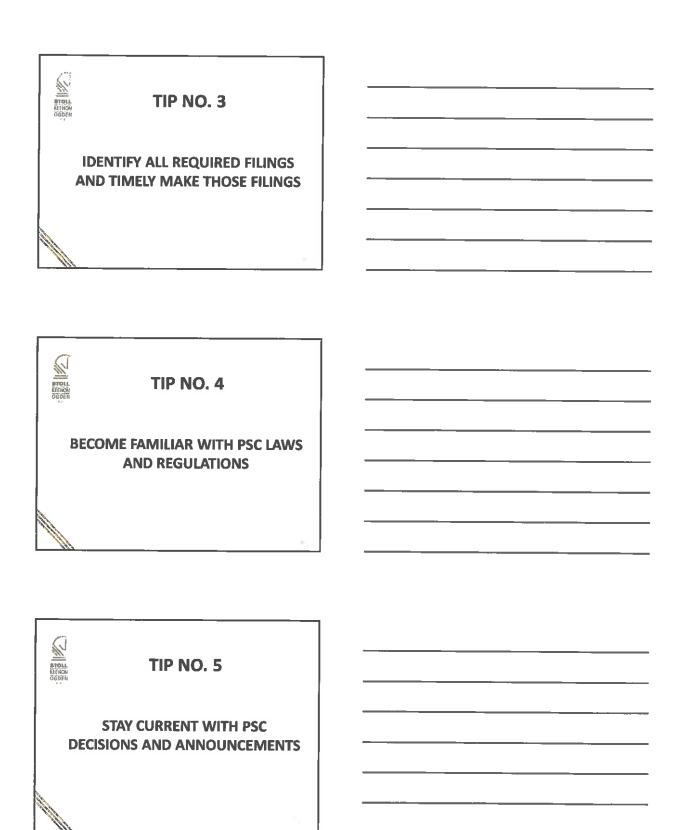
- · Current regulatory environment
  - -Criticism of H<sub>2</sub>O utility management
  - -Threats to penalize/remove H<sub>2</sub>O Officials
  - Ratemaking decisions adverse to H<sub>2</sub>O utility interest
  - -Greater emphasis on formal proceedings



### **INTRODUCTION**

- PSC organizational changes
  - Significant Staff turnover
  - Smaller, less experienced Staff
  - Significant increase in case workload
  - Fewer available PSC resources
  - Newly appointed commissioners
  - Pandemic conditions limiting opportunities to meet with PSC and discuss issues informally







### TIP NO. 6

PREPARATION IS ESSENTIAL TO
OBTAINING YOUR REQUESTED
RELIEF FROM THE PSC



### **TIP NO. 7**

DON'T ASSUME THE PSC IS INFORMED ON AN SUBJECT. EXPLAIN AND EDUCATE.



## TIP NO. 8

YOUR LAWYER AND ENGINEER ARE ESSENTIAL PLAYERS ON YOUR TEAM. USE THEM.



## **TIP NO. 9**

HAVE A STRATEGY FOR THE CASE BEFORE FILING THE APPLICATION



# **TIP NO. 10**

THOROUGHLY DOCUMENT YOUR UTILITY'S ACTIONS



# **TIP NO. 11**

THE PSC IS NOT YOUR FRIEND – IT'S YOUR REGULATOR. TREAT IT ACCORDINGLY.



# Questions?



### **Contact Information:**

Gerald E. Wuetcher Stoll Keenon Ogden PLLC 300 W. Vine Street, Suite 2100 Lexington, Kentucky 40507 gerald.wuetcher@skofirm.com https://twitter.com/gwuetcher (859) 231-3017

1,7

¢as. Revisions to Kentucky's Underground Facility Protection Statute Patrick Keal Duke Energy Kentucky Senior Government Affairs Specialist June 2, 2021 2021 Revisions to the Kentucky Underground Facility Protection Act House Bill 303 (Santoro) - Industry Backed Overhaul Bill - Senate Bill 172 (Howell) ~ Public Service Commission Cleanup Bill COURT. House Bill 303 The most recent effort to revise the statute began three years ago; largely based on the work of KGA's Damage Prevention Committee

374103,997

 The initial version of the recently passed legislation was developed by a working group comprised of more than 25 organizations over a two-year

period

SHEET.

#### HB 303 Working Group Energy and Environment Kentucky League of Cities Cabinet Association of General Kentucky Power Contractors Greater Louisville Inc. Kentucky Rural Water Association of Master Home Builders Association Association Contractors Kentucky American Water Kentucky Telecom Atmos Association Kentucky Association of - AT&T Counties □ LG&E/KU Big Rivers Kentucky Association of Marathon Oil Electric Cooperatives Columbia Gas Northern Kentucky Kentucky Chamber of Commerce Lexington Chamber of Commerce Commerce Delta Natural Gas Public Service Commission Kentucky Gas Association Duke Energy Kentucky Oil and Gas East Kentucky Power Association Company HB 303- 2021 General Assembly Sponsored by Representative Sal Santoro (R-Boone) February 2<sup>nd</sup>, introduced in the House ■ February 25<sup>th</sup>, passed the House 94-0 with two amendments March 12th, passed the Senate 31-0 with one amendment \* March 15th, received concurrence in the House 92-0 March 23<sup>rd</sup>, signed by Governor Beshear January 1<sup>st</sup>, 2022, effective date 5) Jeer 2, 207 HB 303- Substantial Changes to Current Statute (Section 1- Definitions) " "Operator" means any entity or individual owning or operating underground facilities to serve the public, but does not include any entity or individual owning or operating underground storage tanks that are subject to Subchapter 60 of KRS Chapter 224; "Approximate location," when referring to an underground facility, means: (a) For underground metallic facilities and underground normstallic facilities with metallic tracer wire, a distance not to exceed the combined width of the underground facility plus twenty-four (24)(eighteen (18)) inches measured from the outer edge of each side of the underground facility; or (b) For unmapped or untonable facilities (nonmetallic facilities without metallic tracer wire), the underground facility shall be located as accurately as possible from field location records and shall require notification from the operator of the inability to accurately locate the facility;

	-
HB 303- Substantial Changes to Current Statute (Section 1- Definitions)	
"Working day" means every day, except Saturday, Sunday, and holidays established by federal or state statute. For purposes of measuring any period of time prescribed or allowed under the Underground Facility Damage Prevention Act of 1994, a working day shall commence at 12:01 a.m. eastern time and end at 12	
midnight eastern time excluding the day the locate request was made[a twenty-four (24) hour period commencing from the time of receipt of the notification by the Kentucky Centact Center except Saturday, Sunday, and holidays established by federal or state statute;	
"Positive response" means an automated or written communication system	
provided by each protection notification center for all locate requests the center receives pursuant to Section 2 of this Act that allows excavators, locators, operators, and other interested parties to determine the status of locating an underground facility and requires response and verification by operators and	
excavators to comply with their respective requirements of the Underground Facility Damage Prevention Act of 1994;	
C. P. S. E. C.	
HB 303- Substantial Changes to Current Statute (Section 1- Definitions)	]
"Second notice" means a notice that is made by an excavator to a notification	
center when an operator has failed to comply with the positive response requirements under subsection (5) of Section 2 of this Act;	
<ul> <li>"Tolerance zone" means a strip of land at least four (4) feet wide but not wider than the width of the underground facility plus two (2) feet on either side of the outer limits of the facility;</li> </ul>	
"Untonable facility" means an underground facility that cannot be located from the	
surface using locating methods which meet industry standards and that requires additional efforts and extended time;	
"Fiber-to-the-premises" means a service that provides network connectivity between a location and a subscriber using fiber.	
(4) (\$100) (4) (\$100) (5) (\$100)	
LID COD Debeted of Control of Con	]
HB 303- Substantial Changes to Current Statute (Section 2)  * (5) An operator shall respond to facility locate requests and provide a positive	
response as follows:	
(a) To a normal excavation locate request, within two (2) working days after receiving notification from an excavator or any time prior to the scheduled excavation start date if agreed upon as provided in subsection (7) of Section 5 of this Act,	
excluding large project requests, design information requests, emergency locate requests, and unmapped or untonable facilities[, excluding large projects];	
(b) To an emergency locate request, as quickly as possible but not to exceed forty-eight (48) hours after receiving notification from an excavator;	
(c) To a design information request, within ten (10) working days after receiving notification from the person making the request [ and]	
€ 1200 1 2001	

<u> </u>	-
HB 303- Substantial Changes to Current Statute (Section 2)	
(d) To a large project request, within two (2) working days the operator shall notify the excavator that an excavation area has been determined to be a large project, and the operator shall respond to the request within five (5) working days from the later of receiving notification from an excavator or prior to the scheduled excavation start	
date for that location if agreed upon as provided in subsection (7) of Section 5 of this Act;	
(e) To an unmapped or untonable facility request, within two (2) working days the operator shall notify the excavator that an excavation area has been determined to be an unmapped or untonable project, and the operator shall respond to the	
request within five (5) working days for a normal locate request or eight (8) working days for a large project request from the later of receiving notification from an excavator or prior to the scheduled excavation start date if agreed upon as	
provided in subsection (7) of Section 5 of this Act; and	
PRODUCTION BEAUTY	
	]
HB 303- Substantial Changes to Current Statute (Section 2)  (f) To a fiber-to-the-premises broadband deployment excavation request, in	
locations not already served by fiber-to-the-premises, within four (4) working days.	
(6) Within one (1) working day after receiving a second notice request from an excavator pursuant to subsection (12) of Section 3 of this Act, an operator shall locate its facility and update the positive response system.	
11 [2000.] 2004	
HB 303- Substantial Changes to Current Statute (Section 2)	
(7) An operator shall, after[upen] receiving an emergency locate request, [or] a normal excavation locate request, an unmapped or untonable locate request, or a large project request as provided in subsection (5) of this section:	-
(a) Inform the excavator of the approximate location and description of any of the operator's underground facilities that may be damaged or pose a safety concem because of excavation or demolition;	
(b) Unform the excessior of any other information that would assist in locating and avoiding contact with or damage to underground facilities;	
(e)-]Unless permanent facility markers are provided, provide temporary markings to inform the excavator of the ownership and approximate location of the underground facility; and	
(c) <del>((4))</del> Provide a positive response to the requesting party(Neith) the requesting party if underground facilities are not in conflict with the excavation or demolition).	
© DACE 10 Jane 2 200	

	_
HB 303- Substantial Changes to Current Statute (Section 2)	]
• (11)((10)) If extraordinary circumstances exist, an operator shall notify the excavator of the operator's inability to comply with this section. Notification under this subsection shall temporarily relieve the operator of complying with subsections (5) and (6) of this section until the operator can recover from the extraordinary circumstances.	
Extraordinary circumstances include weather that makes it impossible for any combination of facility markers identified in subsection (10) of this section to be used, extreme weather conditions, force majeure, disasters, or civil unrest that make	
timely response difficult or impossible.	
GENERAL BILLIANS BILL	
0 44.45	
	_
HB 303- Substantial Changes to Current Statute (Section 3)	]
= (1) (a) Each excavator, or person responsible for an excavation, planning excavation, or	
demolition work shall, not less than two (2) full working days nor more than ten (10) full working days prior to commencing work, unless a future start date is agreed upon as	
provided in subsection (7) of Section 5 of this Act, notify each affected operator's designated protection notification center/eperater/ of the excavator's Intended work	·
and work schedule[. Contacting the applicable protection notification centers shall satisfy	
thic requirement.  (b) [An excevator may commonce work before.] The two (2) full working days provided for	
in paragraph (a) of this subsection have elapsed if all affected operators have notified the person! that the location of all the affected operators facilities have been marked or that	
they have no facilities in the area of the proposed excavation, demolition, or timber harvesting.	
naroung.	-
	-
GOLDE 11 Jun 2 122	
· · · · · · · · · · · · · · · · · · ·	-
HB 303- Substantial Changes to Current Statute (Section 3)	
(3) Each excavator shall provide each applicable protection notification center with adequate information regarding:	
(a) Name and phone number of the excavator or person requesting the underground facility locate;	
(b) Approximate location and type of work being performed by the excavator, including if the request involves a fiber-to-the-premises broadband deployment	
excavation; (c) Name and phone number of work site contact;	
(d) Estimated start date and start time of excavation; and The name of the individual making the notification;	
(b) The excavator's name, address, and a telephone number; (c)}	
SE DESTRE	
ENERGY. 15 (Ann. A. Surt	J

	_
HB 303- Substantial Changes to Current Statute (Section 3)	
(e) The excavation or demolition site location or locations, each of which shall not exceed five thousand (5,000)(how thousand (2,000)) feet in length unless the excavator and operator agree to a larger area, the city or community, county and street address, including the nearest cross street;	
(d) The type and extent of exceptation or demellion to be performed; (e) A contact name and telephone number of the person responsible for the work to be	
performed).	
Gove Without Miles (20)	
	-
HB 303- Substantial Changes to Current Statute (Section 3)	
(7) If, after the response time(two (2)-day period) provided by KRS 367.4909(5)((a)), the excavator finds evidence of an unmarked underground facility at the site, he shall immediately notify a(the) protection notification center. When an excavator has compiled with subsection (1) of this section and evidence of an unmarked underground facility is uncovered, the operator shall have six (6) business hours to identify the underground facility.	
© DARTS 11/ AME 2, 2011	
© 199304	
HB 303- Substantial Changes to Current Statute (Section 3)	
<ul> <li>(10) When excavation or demolition is necessary within the tolerance zone[approximate location of the underground facility], the excavator shall hand-dig or use nonintrusive</li> </ul>	
means to avoid damage to the underground facility, except that mechanized equipment may be used:  (a) To remove the pavement or other manmade hard surface if used during the	
initial penetration only to the depth necessary and if an Individual other than the equipment operator visually monitors the excavation activity;	
(b) To remove indigenous rock if used during the Initial penetration only to the extent necessary, if an Individual other than the equipment operator visually monitors the excavation activity, and if the excavation is planned to avoid damage	
to the underground facility. However, if the underground facility contains flammable, toxic, corrosive, or hazardous products, the excavator shall notify the	
facility owner of the excavator's intent prior to removing Indigenous rock;	
Alle special	
ENERGY WITH THE PROPERTY OF TH	I

	3
HB 303- Substantial Changes to Current Statute (Section 3)	
(c) To remove materials that are more than twelve (12) linches in any direction from the outer edge of the located facility if the excavator visually identifies the precise location of the underground facility or visually confirms that no facility is present within the depth of the excavation, if an individual other than the equipment	
operator visually monitors the excavation activity, and if the excavation is planned to avoid damage to the underground facility; and	
(d) To place shores into an existing excavation or remove shores from an existing excavation.	
G PLACE OF A COLUMN TO A COLUM	
	1
HB 303- Substantial Changes to Current Statute (Section 3)	
(12) If an operator has falled to give a positive response within the timeframes provided in subsection (5) of Section 2 of this Act, the excavator shall submit a second notice to the protection notification center. If one (1) working day after	
receiving a second notice request as provided in subsection (6) of Section 2 of this Act, the operator has still falled to give a positive response, an excavator that has fully compiled with this section shall not be deemed liable for any damages to an	
underground facility that would have been located if the operator had complied with the operator's duties under Section 2 of this Act, except for damages to a	
person or an underground facility due to negligence or intentional misconduct of an excavator. This subsection shall not apply to any underground facility used to transport gas or hazardous liquid subject to the federal pipeline safety laws, 49	
U.S.C. secs. 60101 et seq.	
GURGE STATE	
HB 303- Substantial Changes to Current Statute (Section 4)	
(1) AllEash protection notification centers[senter] shalt: (a) Provide locate request services during working days and provide an	
emergency contact number for incidents occurring outside the working day[Operate the pretection notification center during all working daye];	
<ul> <li>(b) Provide a positive response system for excavators, locators, operators, and other interested parties to determine the status of locating an underground facility;</li> </ul>	
(c) Provide any excavation request with an Identification number and the names of the facility owners or operators who will be notified for each locate request! <del>Provide a locate request identification number to the exeavator for each exeavation or demolition</del>	
location request;  (d)[(e)] Promptly after receiving an excavation or demostion work notification from an	
excavator, provide to each of its affected operator members the excavator information required by KRS 367.4911(3);	
© BARCOL 2004	

HB 303- Substantial Changes to Current Statute (Section 4)	
(e)[(d)] Maintain a list of all its operator members[member/c identities], their business addresses[addrese] and their business and emergency telephone numbers and provide[recerd] this information in accordance with KRS 64.012 with the county clerk of each county where the operator member has underground facilities. The county clerk	f
shall provide this information upon request for the actual cost of providing a copy, to be paid by the requesting party to the county clerk. The county clerk shall assume no liabilia associated with the receipt of this information from the protection notification center or for	ity
subsequent provision of this same information to the requesting party;  (f){()} Make the operator members information first available to any person for inspection at its place of business without charge or provide a copy of the list to any person for any	n
county upon request for a fee not to exceed the actual cost of providing a copy;  (g)(ff) Define and adopt policies and procedures for processing design information	
requests;[and]  (h)(g)) Provide the person making a design information request a list of identified operators that will receive notification and notify those operators;	
FURE Hands	
-	
	7
HB 303- Substantial Changes to Current Statute (Section 4)	
(1) Maintain the following information provided by excavators for all requests to locate facilities for at least five (5) years from the date of the request:  1. Name and phone number of the excavator or person requesting the underground.	
facility locate;  2. Location and type of work being performed by the excavator;	
- 3. Name and phone number of work site contact;	
4. Name, address, and phone number of underground facility operators; and	
<ul> <li>5. Estimated start date and start time of excavation;</li> <li>(i) Provide contact information for the protection notification center on its Web site</li> </ul>	
or pursuant to paragraph (e) of this subsection; and	
(k) Provide public awareness education and damage prevention programs in the manner and amount determined by each protection notification center.	
• •	
STATE	
"Bearit	
	7
IB 303- Substantial Changes to Current Statute (Section 4)	
(2) The Kentucky Contact Center shall be governed by a board of directors [composed of	
representatives of member operators two are elected by the membership. Board seats shall be composed of no more than twenty-one (21) voting members and six (8)	
nonvoting members and may be filled by representatives of the following:  (a) A natural gas provider;	
(b) An electric provider;	
(c) A telecommunications provider;	
(d) A water/sewer provider; (e) An interstate pipeline operator;	
(f) A municipal utility operator;[and]	
(g) A commercial excavator;	
(h) An oil and gas operator;	
DUCE BRISKY. IN (A to 5.2)	
PRICK.	

HB 303- Substantial Changes to Current Statute (Section 4)	7
(i) At least one (1) but not more than six (6) advisory, nonvoting members	
representing the following:	
- 1. Public Service Commission;	
- 2. Kentucky Transportation Cabinet;	
- 3. Home Builders Association of Kentucky;	
- 4. National Electrical Contractors Association;	
<ul> <li>5. Associated General Contractors of Kentucky; or</li> <li>6. Kentucky Association of Master Contractors/An advisory, nonveting</li> </ul>	
representative of one (1) of the following:	
1. Home Bullders Association of Kontucky;	
-2 National Electrical Contractors Association;	<u> </u>
3. Accociated General Contractors of Kentucky, or	
4. Kentucky Association of Plumbing, Heating Cooling Contractors].	
\$ 1 Am 2 757	
V ((1/5)/2)**	
	٦
HB 303- Substantial Changes to Current Statute (Section 4)	
* (3) Nonvoting members shall be elected by a majority of the voting members and	
shall serve for one (1) year terms which expire on December 31. Nonvoting members are eligible for reappointment by a majority of the voting members.	
members are originated to responditure by a majority of the social manipers.	
(S. N. P. ) (Aug. 2, 2015 ) (Aug. 2, 2015 ) (Aug. 2, 2015 )	
W Breken.	
	٦
HB 303- Substantial Changes to Current Statute (Section 5)	
The same of the sa	
<ul> <li>(1) An excavator who falls to comply with any provision of KRS 387.4911, or an operator who falls to comply with any provision of KRS 367.4909L shall be guilty of endangering</li> </ul>	
underground facilities and may be subject to a civil penalty (fine) of two hundred and	
fifty dollars (\$250) for the first violation[effense], no more than one thousand dollars	
(\$1,000) for the second violation[effence within one (1) year.] and no more than three thousand dollars (\$3,000) for the third and any subsequent violation. A violation shall	
be considered a first violation under this subsection if more than three hundred	
sixty-five (365) days have elapsed since the last incident attributable to a person in	
violation of Section 2 or Section 3 of this Act. If a person commits a violation in the course and scope of employment, the penalties shall be imposed on the	
employer(effence).	
(2) A protection notification center that fails to comply with any provision of KRS	
367.4913 shall be subject to a civil penalty#fine] of one thousand dollars (\$1,000) for each violation/effense).	
each annumon <del>iquence)</del> .	
- Note to the control of the control	
CONECT.	

	7
HB 303- Substantial Changes to Current Statute (Section 5)	
(3) A person that knowingly provides false notice to a utility notification center of an emergency as defined in KRS 367.4903 shall be subject to a ctvil penalty [fine] of one thousand dollars (\$1,000) for each violation[effence].	
* (4) Any person who violates any provision of the Underground Facility Damage Prevention Act of 1994, KRS 367.4901 to 367.4917, that involves damage to a facility containing any flammable, toxic, corrosive, or hazardous material or results in the	
release of any flammable, toxic, corrosive, or hazardous material shall be subject to a civil penalty, in addition to the civil penalty in subsection (1) of this section, fifnel not to exceed one thousand dollars (\$1,000) for each violation[effense]. The penalties of this subsection are not in conflict with and are in addition to civil damages for personal	
injury or property damage.	
Committee of the Commit	
	1
HB 303- Substantial Changes to Current Statute (Section 5)	
<ul> <li>(5) (a) Except as provided in subsection (6) of this section, all civil penalties[fines] recovered for a violation of this section shall be paid to the general fund of the state,</li> </ul>	
county, city, or fire protection agency which issued the citation.  (b) In the event that more than one (1) government agency was involved, the court shall	
direct an apportionment of the civil penaltiesfines).  (c) Failure to comply with the provisions of the Underground Facility Damage Prevention	
Act of 1994, KRS 367.4901 to 367.4917, may be determined at the conclusion of an investigation and shall be based on evidence available to state, county, or city officials,	
law enforcement, or fire protection agencies which issue the citation.	
(7) The commission shall make available on its Web site a written agreement form for an operator and an excavator to agree to a date or series of dates by which	
time the locate request must be completed if different from those dates established in Section 2 of this Act. The form shall contain but is not limited to the	
parties' names, the locate request number, the date requested, and the location. The parties shall make the executed agreement form available upon request of the commission.	
CALINE 20 January, 2004	
Senate Bill 172	
Addressed potential concerns from PHMSA	
<ul> <li>Offers additional protections when underground facility damages occur as</li> </ul>	
a result of exempt activities	
Section.	

SB 172- 2021 General Assembly	]
<ul> <li>Sponsored by Senator Jason Howell (R-Calloway)</li> </ul>	-
February 4 <sup>a</sup> , introduced in the Senate	
* March 2 <sup>nd</sup> , passed the Senate 36-0	
March 15th, passed the House 97-0 with House Committee Substitute	
March 16th, received concurrence in the Senate 35-0	
March 24th, signed by Governor Beshear	
June 28th, 2021, effective date	
\$ 1000000000000000000000000000000000000	
	٦
SB 172- Substantial Changes to Current Statute (Section 1)	
<ul> <li>(9) (a) Each excavator who conducts or is responsible for any excavation or demolition that results in underground facility damage shall cease excavation or demolition activities</li> </ul>	
and notify all affected operators of the location and nature of the underground facility damage immediately upon discovery of the damage.	
(b) Any individual or entity that is otherwise exempt from the requirements of KRS 367.4901 to 367.4917 under Section 2 of this Act, who conducts or is responsible	
for any excavation or demolition that results in underground facility damage to an underground facility or system used for producing, storing, conveying,	
transmitting, or distributing gas, petroleum, petroleum products, or hazardous liquids, shall cease excavation or demolition activities and notify all affected	
operators of the location and nature of the underground facility damage immediately upon discovery of the damage.	
\$\frac{1}{2} \text{DERIT}\$ \$\frac{1}{2} \text{DERIT}\$ \$\frac{1}{2} \text{DERIT}\$ \$\frac{1}{2} \text{DERIT}\$	
	1
SB 172- Substantial Changes to Current Statute (Section 1)	
(c) If the underground facility damage causes concern for public or workplace safety, the excavator, or the individual or entity that is otherwise exempt from the	
requirements of KRS 367.4901 to 367.4917 under Section 2 of this Act, shall notify appropriate public safety agencies of the location and nature of the safety concern.	
(d)\(\frac{H(e)}{e}\) If the underground facility damage results in the escape or suspected escape of any flammable, toxic, or corrosive gas or liquid, the excavator, or the individual or	
entity that is otherwise exempt from the requirements of KRS 367.4901 to 367.4917 under Section 2 of this Act, shall cease excavation or demolition activities and	
immediately report to the appropriate authorities by calling the 911 emergency telephone number.	
CONCERNATION WITHOUT SERVICE	

	-
SB 172- Substantial Changes to Current Statute (Section 2)	
= Except as provided in subsection (9) of Section 1 of this Act the requirements of	
KRS 367.4905 to 367.4917 shall not apply to the following:	
<ol> <li>Excavation by an operator on its own easement except where that easement is crossed by another operator's facilities;</li> </ol>	
(2) Routine road maintenance or railroad maintenance or repairs;	
(3) Tilling of soil for agricultural purposes;	
(4) Excavators excavating on private property, using nonmechanized equipment, if there	
is no encroachment on any operator's right-of-way or easement; (5) The opening of a grave in a cemetery;	
(6) A solld waste disposal site which is properly permitted;	
(7) Coal mining operations which are currently regulated under KRS Chapter 350;	
Column to the second to the se	
OF MANAGEMENT	
	1
SB 172- Substantial Changes to Current Statute (Section 2)	1
(8) A utility operator or utility operator subcontractor performing emergency work as	
defined in KRS 367.4903;	
<ul> <li>(9) Leak migration testing using metal probes inserted by hand by an authorized representative of the operator; [</li></ul>	
(10) Any nonintrusive excavating performed by an operator or his subcontractor to locate	
the operator's underground facilities in response to a notice of excavation from the notification center, if all reasonable precautions have been taken to protect the	
underground facilities; or	
(11) NonIntrusive excavating to inspect or perform maintenance for an existing	
utility pole.	
K THE K PARTY.	
	]
*	
Questions?	
	<del></del>
STREE STATE STATE	

€ GLASS

# Revisions to Kentucky's Underground Facility Protection Statute

Patrick Keal Duke Energy Kentucky Senior Government Affairs Specialist

February 16, 2022

#### 2021 Revisions to the Kentucky Underground Facility Protection Act

- House Bill 303 (Santoro)
- Industry Backed Overhaul Bill
- Senate Bill 172 (Howell)
- Public Service Commission Cleanup Bill

S PLACE

2 | Colorusy 16, 2021

#### House Bill 303

- ▼ The most recent effort to revise the statute began three years ago; largely based on the work of KGA's Damage Prevention Committee
- The initial version of the recently passed legislation was developed by a working group comprised of more than 25 organizations over a two-year period

C BARROY.

8 | February 16, 300

#### HB 303 Working Group Energy and Environment Kentucky League of Cities Association of General Kentucky Power Contractors Greater Louisville Inc. Kentucky Rural Water Association of Master Home Bullders Association Association Contractors Kentucky American Water • Kentucky Telecom \* Almos Kentucky Association of AT&T - LG&E/KU Counties · Big Rivers Kentucky Association of Electric Cooperatives Marathon Oil Columbia Gas Northern Kentucky · Commerce Lexington Kentucky Chamber of Chamber of Commerce Commerce Public Service Commission Delta Natural Gas Kentucky Gas Association Duke Energy Kentucky Oil and Gas East Kentucky Power Association Company HB 303- 2021 General Assembly = Sponsored by Representative Sal Santoro (R-Boone) February 2<sup>nd</sup>, Introduced in the House \* February 25th, passed the House 94-0 with two amendments March 12th, passed the Senate 31-0 with one amendment March 15<sup>th</sup>, received concurrence in the House 92-0 March 23<sup>rd</sup>, signed by Governor Beshear ■ January 1<sup>st</sup>, 2022, effective date GUILE BERNY HB 303- Substantial Changes to Current Statute (Section 1- Definitions) " "Operator" means any entity or Individual owning or operating underground facilities to serve the public, but does not include any entity or individual owning or operating underground storage tanks that are subject to Subchapter 50 of KRS Chapter 224; "Approximate location," when referring to an underground facility, means: (a) For underground metallic facilities and underground nonmetallic facilities with metallic tracer wire, a distance not to exceed the combined width of the underground facility plus twenty-four (24)[eighteen (18)] inches measured from the outer edge of each side of the underground facility; or (b) For unmapped or untonable facilities (nonmetallic facilities without metallic tracer wire), the underground facility shall be located as accurately as possible from field location records and shall require notification from the operator of the inability to accurately locate the facility;

5 / February 65, 8922

C PULLE

	-
HB 303- Substantial Changes to Current Statute (Section 1- Definitions)	
"Working day" means every day, except Saturday, Sunday, and holldays established by federal or state statute. For purposes of measuring any period of time prescribed or allowed under the Underground Facility Damage Prevention Act of 1994, a working day shall commence at 12:01 a.m. eastern time and end at 12	
midnight eastern time excluding the day the locate request was made(a-twenty-four (24) hour period commencing from the time of receipt of the notification by the Kentucky Contact Center except Saturday, Sunday, and holidays ostablished by federal or state statute);	
Residue response" means an automated or written communication system	
provided by each protection notification center for all locate requests the center receives pursuant to Section 2 of this Act that allows excavators, locators, operators, and other interested parties to determine the status of locating an underground facility and requires response and verification by operators and	
excavators to comply with their respective requirements of the Underground Facility Damage Prevention Act of 1994;	
\$1000 1,500 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	_
HB 303- Substantial Changes to Current Statute (Section 1- Definitions)	
<ul> <li>"Second notice" means a notice that is made by an excavator to a notification center when an operator has falled to comply with the positive response requirements under subsection (5) of Section 2 of this Act;</li> </ul>	
<ul> <li>"Tolerance zone" means a strip of land at least four (4) feet wide but not wider than the width of the underground facility plus two (2) feet on either side of the outer limits of the facility;</li> </ul>	
"Untonable facility" means an underground facility that cannot be located from the surface using locating methods which meet industry standards and that requires additional efforts and extended time;	
"Fiber-to-the-premises" means a service that provides network connectivity between a location and a subscriber using fiber.	
STATE Differency N. 200	
HB 303- Substantial Changes to Current Statute (Section 2)	
<ul> <li>(5) An operator shall respond to facility locate requests and provide a positive response as follows:</li> </ul>	
(a) To a normal excavation locate request, within two (2) working days after receiving notification from an excavator or any time prior to the scheduled excavation start date if agreed upon as provided in subsection (7) of Section 5 of this Act.	
excluding large project requests, design information requests, emergency locate requests, and unmapped or untonable facilities[-excluding-large-projects];	
(b) To an emergency locate request, as quickly as possible but not to exceed forty-eight (48) hours after receiving notification from an excevator;	
(c) To a design information request, within ten (10) working days after receiving notification from the person making the request; [-and]	
d. NED	
DEED. 07-may 222	

7		_
	HB 303- Substantial Changes to Current Statute (Section 2)	
	(d) To a large project request, within two (2) working days the operator shall notify the excavator that an excavation area has been determined to be a large project, and the operator shall respond to the request within five (5) working days from the later of receiving notification from an excavator or prior to the scheduled excavation start	
	date for that location if agreed upon as provided in subsection (7) of Section 5 of this Act;	
	(e) To an unmapped or untonable facility request, within two (2) working days the operator shall notify the excavator that an excavation area has been determined to be an unmapped or untonable project, and the operator shall respond to the	
	request within five (5) working days for a normal locate request or eight (8) working days for a large project request from the later of receiving notification from an excavator or prior to the scheduled excavation start date if agreed upon as provided in subsection (7) of Section 5 of this Act; and	
	Charles to	
Γ		٦
ĺ	HB 303- Substantial Changes to Current Statute (Section 2)	
	(f) To a fiber-to-the-premises broadband deployment excavation request, in locations not already served by fiber-to-the-premises, within four (4) working days.	
	(6) Within one (1) working day after receiving a second notice request from an	
	excavator pursuant to subsection (12) of Section 3 of this Act, an operator shall locate its facility and update the positive response system.	
l		
	G Miller. etgenous, 202	
	· · · · · · · · · · · · · · · · · · ·	
	HB 303- Substantial Changes to Current Statute (Section 2)	]
	(7) An operator shall, after[upon] receiving an emergency locate request, [or] a normal excavation locate request, or a large	
	project request as provided in subsection (5) of this section:	
	<ul> <li>(a) Inform the excavator of the approximate location and description of any of the operator's underground facilities that may be damaged or pose a safety concern because of excavation or demolition;</li> </ul>	
	(b) Uniform the executator of any other information that would assist in locating and evolding contact with or damage to underground facilities;	
	(e)-Unless permanent facility markers are provided, provide temporary markings to inform the excavator of the ownership and approximate location of the underground facility; and	
	(c)(d) Provide a positive response to the requesting party(Nettly the requesting party if underground facilities are not in conflict with the excavation or demolition).	
-	OURE 12 graduate 10 April 12 A	

	-
HB 303- Substantial Changes to Current Statute (Section 2)	
(11)((10)) If extraordinary circumstances exist, an operator shall notify the excavator of the operator's inability to comply with this section. Notification under this subsection shall temporarily relieve the operator of complying with subsections (5) and (6) of this section until the operator can recover from the extraordinary circumstances.	
Extraordinary circumstances include weather that makes it impossible for any combination of facility markers identified in subsection (10) of this section to be used, extreme weather conditions, force majeure, disasters, or civil unrest that make	
timely response difficult or impossible.	
Children 6.20	
	7
HB 303- Substantial Changes to Current Statute (Section 3)	
(1) (a) Each excavator, or person responsible for an excavation, planning excavation, or demolition work shall, not less than two (2) full working days nor more than ten (10) full working days prior to commencing work, unless a future start date is agreed upon as	
provided in subsection (7) of Section 5 of this Act, notify each affected operator's designated protection notification centerjoperately of the excavator's intended work and work schedulefContacting the applicable protection notification contacts shall existly	
this requirement). (b) [An excavator may commence work before   The two (2) full working days provided for	
in paragraph (a) of this subsection have elapsed if all affected operators have notified the person! that the location of all the affected operators facilities have been marked or that	
the <del>y have no facilities in the area of the proposed excavation, demolition, or timber harvestingl</del> .	
ELECT MITCHEN M. PET MITCHEN M. PET	
HB 303- Substantial Changes to Current Statute (Section 3)	
<ul> <li>(3) Each excavator shall provide each applicable protection notification center with adequate information regarding:</li> </ul>	
(a) Name and phone number of the excavator or person requesting the underground facility locate; (b) Approximate location and type of work being performed by the excavator.	
<ul> <li>including if the request involves a fiber-to-the-premises broadband deployment excavation;</li> </ul>	
(c) Name and phone number of work site contact; (d) Estimated start date and start time of excavation; and The name of the individual making the notification;	
(b) The excavator's name, address, and a telephone number; (c))	
G. IN LIGHT STATEMENT STAT	
W'SECK	I and the second

HB 303- Substantial Changes to Current Statute (Section 3)	
(e) The excavation or demolition site location or locations, each of which shall not exceed five thousand (5,000)#we thousand (2,000)# feet in length unless the excavator and operator agree to a larger area, the city or community, county and street address, including the nearest cross street;	
(d) The type and extent of excavation or demailtion to be performed; (e) A contact name and telephone number of the person responsible for the work to be	
performedj.	
OF-LUNE W/February 6X-000	
W) Friency (Lytte)	
	٦
HB 303- Substantial Changes to Current Statute (Section 3)	
<ul> <li>(7) If, after the response time(twe-(2) day period) provided by KRS 367.4909(5)((a)), the excavator finds evidence of an unmarked underground facility at the site, he shall</li> </ul>	
immediately notify afthel protection notification center. When an excavator has complied with subsection (1) of this section and evidence of an unmarked	
underground facility is uncovered, the operator shall have six (6) business hours to identify the underground facility.	
di, 191-1910.	
E RANGE TO FEMALON DE STORE	
	7
HB 303- Substantial Changes to Current Statute (Section 3)	
(10) When excavation or demolition is necessary within the tolerance zone(approximate location of the underground facility), the excavator shall hand-dig or use nonintrusive means to avoid damage to the underground facility, except that mechanized	
equipment may be used: (a) To remove the pavement or other manmade hard surface if used during the	
initial penetration only to the depth necessary and if an individual other than the equipment operator visually monitors the excavation activity;	
(b) To remove indigenous rock if used during the initial penetration only to the extent necessary, if an individual other than the equipment operator visually	
monitors the excavation activity, and if the excavation is planned to avoid damage to the underground facility. However, if the underground facility contains	
flammable, toxic, corrosive, or hazardous products, the excavator shall notify the facility owner of the excavator's intent prior to removing indigenous rock;	
THE FORMACY M. 2022	

HB 303- Substantial Changes to Current Statute (Section 3)	
(c) To remove materials that are more than twelve (12) inches in any direction from the outer edge of the located facility if the excavator visually Identifies the precise location of the underground facility or visually confirms that no facility is present within the depth of the excavation, if an Individual other than the equipment	
operator visually monitors the excavation activity, and if the excavation is planned to avoid damage to the underground facility; and  (d) To place shores into an existing excavation or remove shores from an existing	
excavation.	
G. DUROT. 16 17 enury II, 2022	
HB 303- Substantial Changes to Current Statute (Section 3)	
(12) If an operator has failed to give a positive response within the timeframes provided in subsection (5) of Section 2 of this Act, the excavator shall submit a second notice to the protection notification center. If one (1) working day after	
receiving a second notice request as provided in subsection (6) of Section 2 of this Act, the operator has still failed to give a positive response, an excavator that has fully complied with this section shall not be deemed liable for any damages to an	
underground facility that would have been located if the operator had complied with the operator's duties under Section 2 of this Act, except for damages to a person or an underground facility due to negligence or intentional misconduct of	
an excavator. This subsection shall not apply to any underground facility used to transport gas or hazardous liquid subject to the federal pipeline safety laws, 49 U.S.C. secs. 60101 et seq.	
E BARTIN 2015 damy 15, 700°	
HB 303- Substantial Changes to Current Statute (Section 4)	
(1) All(Each) protection notification centers[center] shall:	
(a) Provide locate request services during working days and provide an emergency contact number for incidents occurring outside the working day[Operate the protection notification conter during all working days];	
(b) Provide a positive response system for excavators, locators, operators, and other interested parties to determine the status of locating an underground facility; (c) Provide any excavation request with an identification number and the names of	
to frovide any excavation request with an identification number and the names of the facility owners or operators who will be notified for each locate request!Provide a locate request identification number to the excavator for each excavation or demolition location request!;	
(d)\(\frac{1}{4}\) Promptly after receiving an excavation or demolition work notification from an excavator, provide to each of its affected operator members the excavator information required by KRS 367.4911(3);	
,	
© DATE DATE 21 February 10,0002	

	_
HB 303- Substantial Changes to Current Statute (Section 4)	
(e)[{d}] Maintain a list of all its operator members/members identifies), their business addressee addrese  and their business and emergency telephone numbers and provide/recerd} this information in accordance with KRS 64.012 with the county clerk of each county where the operator member has underground facilities. The county clerk	
shall provide this information upon request for the actual cost of providing a copy, to be paid by the requesting party to the county clerk. The county clerk shall assume no liability associated with the receipt of this information from the protection notification center or for	
subsequent provision of this same Information to the requesting party;  (f))(e)) Make the operator members information list available to any person for inspection at its place of business without charge or provide a copy of the list to any person for any	
county upon request for a fee not to exceed the actual cost of providing a copy;  (g){{{}}} Define and adopt policies and procedures for processing design information requests;{ and}	
(h)((g)) Provide the person making a design information request a list of identified operators that will receive notification and notify those operators;	
FREET. 21(Strain 9.70)	
	1
HB 303- Substantial Changes to Current Statute (Section 4)	
(I) Maintain the following information provided by excavators for all requests to	
locate facilities for at least five (5) years from the date of the request:  1. Name and phone number of the excavator or person requesting the underground	
facility locate;	
Location and type of work being performed by the excavator;	
3. Name and phone number of work site contact; 4. Name, address, and phone number of underground facility operators; and	
5. Estimated start date and start time of excavation;	
(j) Provide contact information for the protection notification center on its Web site	
or pursuant to paragraph (e) of this subsection; and (k) Provide public awareness education and damage prevention programs in the	
manner and amount determined by each protection notification center.	
To Design to State of the State	
	_
HP 203 Cubatantial Changes to Current Chatata (Castian 4)	
HB 303- Substantial Changes to Current Statute (Section 4)	
4 (2) The Kentucky Contact Center shall be governed by a board of directors feemposed of representatives of member operators (who are elected by the membership. Board seats	
shall be composed of no more than twenty-one (21) voting members and six (6)	
nonvoting members and may be filled by representatives of the following:	
(a) A natural gas provider; (b) An electric provider;	
(c) A telecommunications provider;	
(d) A water/sewer provider;	İ
(e) An interstate pipeline operator;	
(f) A municipal utility operator; [and]	
(g) A commercial excavator; (h) An oil and gas operator;	
6-2	
J. MOD	
MUTI 14] February 16, 942	

	_
HB 303- Substantial Changes to Current Statute (Section 4)	
(i) At least one (1) but not more than six (6) advisory, nonvoting members representing the following:	
- 1. Public Service Commission;	
- 2. Kentucky Transportation Cabinet;	
- 3. Home Builders Association of Kentucky;	
- 4. National Electrical Contractors Association;	
- 5. Associated General Contractors of Kentucky; or	
<ul> <li>- 6. Kentucky Association of Master Contractors[An advisory, nonveting representative of one (1) of the following:</li> </ul>	
1. Home Builders Association of Kentucky;	
2. National Electrical Contractors Association;	
- 3. Associated General Contractors of Kentucky; or	
4. Kentucky Association of Plumbing, Heating-Cooling Contractors]-	
(C. E. D. E. C.	
	-
HB 303- Substantial Changes to Current Statute (Section 4)	
<ul> <li>(3) Nonvoting members shall be elected by a majority of the voting members and</li> </ul>	
shall serve for one (1) year terms which expire on December 31. Nonvoting members are eligible for reappointment by a majority of the voting members.	
members are arginist for reappointment by a majority or the voting members.	
G SURE 20 Ferrer 5.20	
	7
HB 303- Substantial Changes to Current Statute (Section 5)	
(1) An excavator who fails to comply with any provision of KRS 367.4911, or an operator who fails to comply with any provision of KRS 367.4909, shall be guilty of endangering	
underground facilities and may be subject to a civil peneltyfficel of two hundredLeads	
fifty dollars (\$250) for the first violation[effease], no more than one thousand dollars	
(\$1,000) for the second violation[effence within one (1) year,] and no more than three	
thousand dollars (\$3,000) for the third and any subsequent violation. A violation shall be considered a first violation under this subsection if more than three hundred	
sixty-five (365) days have elapsed since the last incident attributable to a person in	
violation of Section 2 or Section 3 of this Act. If a person commits a violation in the	
course and scope of employment, the penalties shall be imposed on the	
employer/offence).  (2) A protection polification center that fails to comply with any provision of KPS	
(2) A protection notification center that fails to compty with any provision of KRS 367.4913 shall be subject to a civil penaltyfinel of one thousand dollars (\$1,000) for	
each violation[affense].	
• •	
E-PAGE	

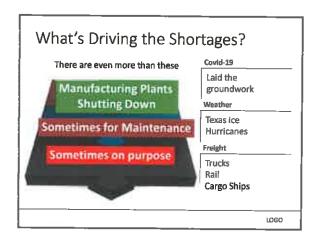
HB 303- Substantial Changes to Current Statute (Section 5)	
(3) A person that knowingly provides false notice to a utility notification center of an emergency as defined in KRS 367.4903 shall be subject to a civil penaltyfine) of one thousand dollars (\$1,000) for each violation[effense].	
(4) Any person who violates any provision of the Underground Facility Damage Prevention Act of 1994, KRS 367.4901 to 367.4917, that involves damage to a facility containing any flammable, toxic, corrosive, or hazardous material or results in the	
release of any flammable, toxic, comosive, or hazardous material shall be subject to a civil penalty, in addition to the civil penalty in subsection (1) of this section, fine) not to exceed one throusand dollars (\$1,000) for each violation (effense). The penalties of this subsection are not in conflict with and are in addition to civil damages for personal	
injury or property damage.	
G DIAGE  O CONTROL  IN Process to usua	
UD 202 Culpotential Changes to Company Old to Company	1
HB 303- Substantial Changes to Current Statute (Section 5)  • (5) (a) Except as provided in subsection (6) of this section, all civil penalties@nes	
recovered for a violation of this section shall be paid to the general fund of the state, county, city, or fire protection agency which issued the citation.	
(b) In the event that more than one (1) government agency was involved, the court shall direct an apportionment of the civil penaltice#ineel.	
(c) Fallure to comply with the provisions of the Underground Facility Damage Prevention	
Act of 1994, KRS 367.4901 to 367.4917, may be determined at the conclusion of an investigation and shall be based on evidence available to state, county, or city officials,	
law enforcement, or fire protection agencies which issue the citation.  (7) The commission shall make available on its Web site a written agreement form	
for an operator and an excavator to agree to a date or series of dates by which time the locate request must be completed if different from those dates	
established in Section 2 of this Act. The form shall contain but is not limited to the parties' names, the locate request number, the date requested, and the location.	
The parties shall make the executed agreement form available upon request of the commission.	
© 1500 21 Telesty 5, 202	
Senate Bill 172	
51.4.4 Shi 112	
Addressed potential concerns from PHMSA	
Offers additional protections when underground facility damages occur as	
a result of exempt activities	
C DECE 20 Fellows to 2022	

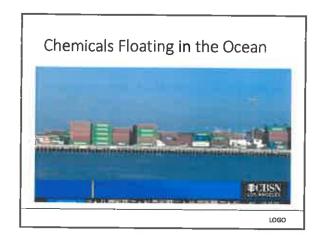
ı		_
	SB 172- 2021 General Assembly	
	Sponsored by Senator Jason Howell (R-Calloway)	
	February 4 <sup>th</sup> , introduced in the Senate	
l	March 2 <sup>nd</sup> , passed the Senate 36-0	
l	<ul> <li>March 15<sup>th</sup>, passed the House 97-0 with House Committee Substitute</li> </ul>	
l	<ul> <li>March 16th, received concurrence in the Senate 35-0</li> </ul>	
	March 24th, signed by Governor Beshear	
ľ	□ June 28 <sup>th</sup> , 2021, effective date	
L	G-Mare Anny Citiz	alle l
Г		$\neg$
	SB 172- Substantial Changes to Current Statute (Section 1)	
	<ul> <li>(9) (a) Each excavator who conducts or is responsible for any excavation or demolition that results in underground facility damage shall cease excavation or demolition activities</li> </ul>	
	and notify all affected operators of the location and nature of the underground facility damage immediately upon discovery of the damage.	
l	(b) Any individual or entity that is otherwise exempt from the requirements of KRS 367.4901 to 367.4917 under Section 2 of this Act, who conducts or is responsible	l l
	for any excavation or demolition that results in underground facility damage to an underground facility or system used for producing, storing, conveying	
	transmitting, or distributing gas, petroleum, petroleum products, or hazardous liquids, shall cease excavation or demolition activities and notify all affected	
	operators of the location and nature of the underground facility damage immediately upon discovery of the damage.	
	\$150 mg 15 201	- u
-	<del></del>	¬
	SB 172- Substantial Changes to Current Statute (Section 1)	
	(c) If the underground facility damage causes concern for public or workplace safety, the excavator, or the individual or entity that is otherwise exempt from the	
	requirements of KRS 367.4901 to 367.4917 under Section 2 of this Act, shall notify appropriate public safety agencies of the location and nature of the safety concern.	
	(d)(e)) if the underground facility damage results in the escape or suspected escape of any flammable, toxic, or corrosive gas or liquid, the excavator, or the individual or	
	entity that is otherwise exempt from the requirements of KRS 367.4901 to 367.4917 under Section 2 of this Act, shall cease excavation or demolition activities and	
	immediately report to the appropriate authorities by calling the 911 emergency telephone number.	
	DINE CONTRIBUTION	ī

	1
SB 172- Substantial Changes to Current Statute (Section 2)	
<ul> <li>Except as provided in subsection (9) of Section 1 of this Act, the requirements of KRS 367.4905 to 367.4917 shall not apply to the following:</li> </ul>	
(1) Excavation by an operator on its own easement except where that easement is	
crossed by another operator's facilities; (2) Routine road maintenance or railroad maintenance or repairs;	-
(3) Tilling of soil for agricultural purposes;	
<ul> <li>(4) Excavators excavating on private property, using nonmechanized equipment, if there is no encroachment on any operator's right-of-way or easement;</li> </ul>	
(5) The opening of a grave in a cemetery;	
(6) A solid waste disposal site which is properly permitted; (7) Coal mining operations which are currently regulated under KRS Chapter 350;	
CARE MIJERANO W. BEZZ	
A BESTON	
	1
SB 172- Substantial Changes to Current Statute (Section 2)	
<ul> <li>(6) A utility operator or utility operator subcontractor performing emergency work as defined in KRS 367.4903;</li> </ul>	
(9) Leak migration testing using metal probes inserted by hand by an authorized	
representative of the operator; [er] (10) Any nonintrusive excavating performed by an operator or his subcontractor to locate	
the operator's underground facilities in response to a notice of excavation from the notification center, if all reasonable precautions have been taken to protect the	
underground facilities; or	
(11) Nonintrusive excavating to inspect or perform maintenance for an existing utility pole.	
	<u></u>
€ IN February 10, 2002	
G. Batter	
Questions?	
G-DUKE HITCH SIZE	
A. E. E. C. T. C.	

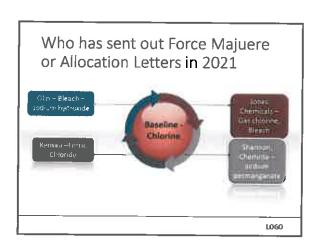












## Letters of Price Increases

LOGO



make 12



case of these party equipply to be purely force. All major in 1975, major collisions and collection of the force of the party of the collisions of the first party over course on four and made, approach to address on the collisions of the collisions.

Indicate qual, no profit, that name of conveyorly consum at 2007 and not income a beyon, high. The in regression by animation for the Produces Streamber Mindes, of or opinion of opinion between the fields at our opinion of opinion between the fields of the field of the fields of th

Low years a process of the process o

Present this formuly this to proper one are brown the other and a subsection of the parties of t

Additionably the Extension were found providing print inquiring part of commutations of Conjunt lines from the Conjunt for or quality from the conjunt in a disjungation.



At its pare, though the bit treatment is we want to filled the part on bother another most the detected above.

It has been been in parts or appeared, the first manual parts on their conductors. All him them comprehension of events of press long. I had been about manual parts or another parts of the 19 and plants you the 19 and plants of the conductors and constructions of an or all constructions and a construction of an or another parts of the conductors and a construction of an or another parts of the conductors and a construction of an or another parts of the conductors and a construction of an or another parts of the conductors and a construction of an or another parts of the conductors and a construction of an order parts of the conductors and a construction of an order parts of the conductors and a construction of the conductors and a construction of the conductors and a construction of the conductors are a construction of the conductors.

The power acceptor-that ICI wend your on our game material court historrang mets. They do not solve and the profit for a TI live, they do not conclude any or two after requirements to of measures up to some of the point meth or must recommend thought read require fact, and professor. If the after re hell one out of the contract accounts. However, there excludes a reclinic and contract to professor must be

A 18 year, can't many visitally proved at 7 is depth of any closed contract to retain a retain or off, the empty steals also version to be found from the milk for supposed part institution of aggregate delectrications. Annual Provincia see it has been been been also also be for the common and on the posted seemed at the provincia seement, where posted as it is more to be a formation of the posted as it is more than a second at a post of annual and a second at a second and a second annual and a second at a second and a second annual ann

It is also reperform as an improved,  $\Phi_{ij}(R)^{2}$  is an in-produce of Chi-cast spec i-casts,  $\Phi_{ij}(k)$  in a function foliable (Fermi Section Company) as well as a function of Castal spec i-casts  $\Phi_{ij}(k)$  is an in-in-indicate, and  $\Phi_{ij}(k)$  is consistent from the final fields,  $\Phi_{ij}(k)$  is consistent from the fields  $\Phi_{ij}(k)$  in the field  $\Phi_{ij}(k)$  is the first  $\Phi_{ij}(k)$  in the first  $\Phi_{ij}(k)$  in the first  $\Phi_{ij}(k)$  is the first  $\Phi_{ij}(k)$  in the first  $\Phi_{ij}(k)$  in the first  $\Phi_{ij}(k)$  in the first  $\Phi_{ij}(k)$  is the first  $\Phi_{ij}(k)$  in the first  $\Phi_{ij}(k)$  in the first  $\Phi_{ij}(k)$  is the first  $\Phi_{ij}(k)$  in the first  $\Phi_{ij}(k)$  in the first  $\Phi_{ij}(k)$  in the first  $\Phi_{ij}(k)$  is the first  $\Phi_{ij}(k)$  in the first  $\Phi_{ij}(k)$  in the first  $\Phi_{ij}(k)$  is the first  $\Phi_{ij}(k)$  in the first  $\Phi_{ij}(k)$  in the first  $\Phi_{ij}(k)$  is the first  $\Phi_{ij}(k)$  in the first  $\Phi_{ij}(k)$  in the first  $\Phi_{ij}(k)$  is the first  $\Phi_{ij}(k)$  in the first  $\Phi_{ij}(k)$  in the first  $\Phi_{ij}(k)$  is the first  $\Phi_{ij}(k)$  in the first  $\Phi_{ij}(k)$  is the first  $\Phi_{ij}(k)$  in the first  $\Phi_{ij}(k)$  in the first  $\Phi_{ij}(k)$  is the first  $\Phi_{ij}(k)$  in the first  $\Phi_{ij}(k)$  is the first  $\Phi_{ij}(k)$  in the first  $\Phi_{ij}(k)$  is the first  $\Phi_{ij}(k)$  in the first  $\Phi_{ij}(k)$ 

The states, but as proceedings from states at the different and the open proof of appeals to prove action of prompts, unfordering, and a square as on a "flow fact if in contrachalleng."

Smande

Sminister Walls

Festivasi Sales Admongratica JCTJ von Plagmania Br

LOGO



## Letters

LOGO



February 23, 2021

SUBJECT: Sedien Rypouticits (Eleast) Price Incresse Amestrement

Deep Guzziamer

Efficiently investigations, or or, customed brown promits, data Capacidinate Cable: Advant Production and Association Confession and Confess

Program you has your workened beneficions. Who empressione the contributed extindences you or easier to Day an your extinguish.

Schooling, DESCRIPTION OF CHARLES AND CHAR

April

Lines Sherkmissus Markship Dracks - Blooch



Alle-Mont Point III Charless, Insurance (A) II Harm, alleith Alle v (ap. 1746 alleigh-plane) Alberty, app, 1786 app, 1<sub>1</sub>

4510.007, 12245

\$16.8ECT: Sedien Hypochemic (Sheeth) Prior Incomer Americanses & NES Sudam Hypochemia (Sheeth) Seder Contact

Eliaforo immediatello, ar all derivate facility (serve), Clin. Corporations. Chier Ralgo Production and Virtual Indiano, (Clin.), in immuno, (Clin

Autobiosolie, ofinative fater 5, 2007, 120m in implementing 99% order material for oil grante of another hyposolitatin (Maneris) anomic qui entire dydinos, da mortimat Boroni prinçal.

Louid Novan hit mit reliens ordinen of Destinos (14) daten and Verst-Gify-days he mit neps team netwer (new Gify days to direct probabilisely will be steady astropy astropact in

Your again expressionates will be at parapal may put to declare any quantum  $y_{\rm M}$  may have requesting the point breakes for constraints.

Proority year for year unlocal framework. We approximate the continued conditioned  $\gamma \eta_{ij}$  appear in Cilia on pion toggetor

environmental de la constante 
Morrison Proceduration - Dogs



First Test III Contest Termina 1900 From All Contest to the All Contest to Invest hitten manufacting in the

PERE 1922 PAR

Effactive Instrudución, es un contend terran terrale, Cifa Compension's Cifar Aball.
Producis and "Bryll Delain (Dirik) is increasing effectivable prima of Commencial
Grand elegimental particular cifare conscion elegimentals prima of Commencial
Grand elegimental particular cifare conscion elegimentals particular cifared
In Itin U.S. and Ciffé per depresentan (Dirik') in Canada, not a sessor un risk parte

Fine water is in the follower, en mole

Land times for else dare will be a fidily control to by the lotted on masses. To have, by hum shipments, 14 days to cellon situations, and 30 days for being all paramet

Year statum manager will be an ordered with you be extensively quantized you enter here regarding the prior interest extrement and farmer during the current state or an extensive property of the current of the curren

We appreciate your braneous and your confidence in melecting Olivian your anapplies

duct.

Tadd Telefor Bileforing Director, North Arnadon Clevetic Brojn Diri Chlor Albah Preducts and Vrojdo





CHLOR ALKALI Pow of 100 Mark 197 (Street And Street And	
July 33, 2021  SUBJECT: Countic Backs Prior bicrosom funccionature of	
Donr Custoiver	
Effective overaddisely, or an contend terms parent. Die Corpositions Chier Allah Products and Veryla Edward (Oler) is increasing off-ethedate priors of Commissed Goods (stappings) and identicane Grade suspected by \$75 per day states to 4,05 per day states for 4,05 for day increased Goods (stappings) and identicane Grade suspect overable by \$75 per day states to 4,05 per day states for \$100 per day states for \$1	
Prices are period for, 76% NacChanas, no wode.	
Ohn continues to software to the presecutify attributional carrier secretal program bursed on 100% altonation. Lead threse for all profess will be rividily activated to in the following secures 7.2 hours for truck shpresents, 14 days for rings subgranates. and 30 days for following subgranates.	
Your account manager exit be as contact with you to annue very quantities you may have regarding this press increases announcement and factors driving the current price decreases.	
We approcable your business each your confidence in aslecting Olic as your supplier	
Smoonely and and and and	
Todd Teaser Markeling Disorter, Morth Assence Caustic State Olin Olion Altali Products and Vinyla	LOGO



#### 490 James Rene: No. - Glaves and Tampassace 2 and Places 44 5 JS-4865 - Film 423 256-4855. Printed Administration of the Mandred Com-

September 2, 2021

#### SUBJECT: Countic Sods Price Increase Announcement

Dear Customer

Effective Immediately, or as contract terms permit, Olen Corporations Chlor Allab Products and Varyle Diversion (Diff) is increasing off-abhildule prices of Commercial Control Colombras and Membrane Grands Calabrigate) and Membrane Grands Calabrigate on 5 (500 per dry short is m (SET) in the U.S., and C\$135 per dry metor ton (DMT) in Canada, cert to exceed our let price

Proces are per not ton, 76% Na<sub>2</sub>O began, ex. works.

Our will be almostly activering to are order conduct program based on 80% allocation. Lead limits for all orders with the stockly activered to in line following rearmers, 72 hours for track shipmants, 14 days for relice

Your account manager will be in contact with you to arraver any questions you may have regarding this prior accrease announcement and factors driving the current once increase.

We opprecially your business and your confidence in selecting Olm as your supplier

Security.

Level . .

Markeling Director, North America Caustic Sode Otin Chlor Alia's Products and Viryls

LOGO



440 Shatt Anial Str. Clevelard Terrorene (2727) Prove 422/24-4021 o Pro-420026-4030 Invote Adiana were observed allere

Destarber 28, 2021

Effective manishatis, we are consinct some perma, this componence's CE or Abril Produces and Voyds Dictions (Olin) is measuring the on wholshe and off schoolshe per e of chloride by \$150.00 per short not in the US and by  $C_0$ AD \$250 per metric nor in Canada

One will a tenume under its pressurably annument 30% under symmetric programs. Level more for all units in online of energy one (21) days recease in effect and well be search, administrator.

Your account manager will be an evision with you as assured any questions just may have required this passe amount many the extension of the passes of the p

The second of th

Succeeds. e is diffy

Paine Dar Juge Barnero Durcer - Chiene & Hot Olm Chie Allah Product and Vegls



FIG. Busin Rani, 100 - Derakim 6 Termestron Million Process (IEEE Revision 6 Feet a) 27 (20) 4600 Fig. 100 April 100

Enterte IC EST

Effective inventisatily, or an vantand turns perroll. Olio Contention's Divin Albut Products and Verylo Division (CRP) is introducing alliastensis prices of Commercial Commit Spokyspari) and Mandalous Stands scales val

Fires on parenties, 70% (raid seas, ex. viola-

Difn will continue to implement an autor control palgreen based on 100s allocator.

Level lines for all collect reliable behindly advaned to in the following memore: 72 hours for truck shipments, 14 days for relicer shipments, and 20 days for large shipments.

Your element manager will be in correct with you to access only quantum you may have regarding this price inframes minuscomment and factors deteing the current price informs.

We appreciate your business and your confidence in effecting thin as  $\gamma c_{\rm M}$  at  $\gamma c_{\rm M}$ 

Todd Toesey Burketing Director, Horlb Arrevion Caustic Sesio Otto Chief Alteri Products and Viryla

6



40 film ( Ann. ( Threshot, Tecopoup 201) 2 Person also libraries - No. 425 television of 142 202 films - No. 425 television page

Outsher 15, 2021

#### BUBJECT: Scalium Hypocklarite (Sleech) Price Increase Asymumocravit

Effection Consistency or as manhant herror percel, Olin Carperateur's Chile Adult Production and State Services (ISSA), in translating the critic price of bulk declare production of the control of the

Establishmen, for all values actions of finations (54) days, and have (3) days, for all tank track unlines fine (3) days to direct recomposition) will be strictly solvened in .

Your spins injectoristics will be as uprinct wite you in mesors any quantum, you may been expending two print stateshed descurrented.

Francis grad the genus extract beamments this approximate the startionnest confidence of this was great suppliate.

AUGUSTO RESOURCEMENTALISME





Letters

LOGO



2801 Post Oak Blvd., Suite 600 Houston 13, 77055 Yel 713 960 9111

May 26 2021

Deer Customer

Effociosi immarkulately, or as parameasise by contract. Weathle is aurocamora; a prace runcasa for Chlorine leads Indipantelestily or as part of an ECUI by USS 65 per short last in the United Statistics and CS for per motice, low This increase a microsolidated by a significant auplat/stemard balance of elibone and chlorine demanders. It is a forestate and accomplished to announced price increases

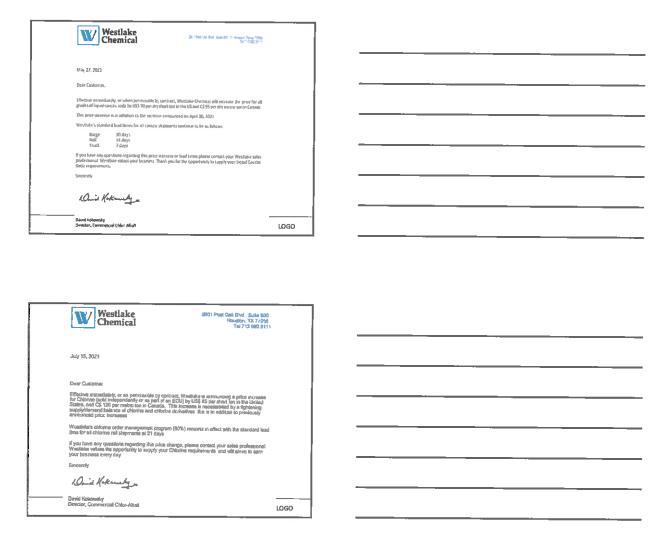
Wantake's chicrose order management program (80%) remains as effect with the standard lead time for all chlorine nell eleptronis at 21 days

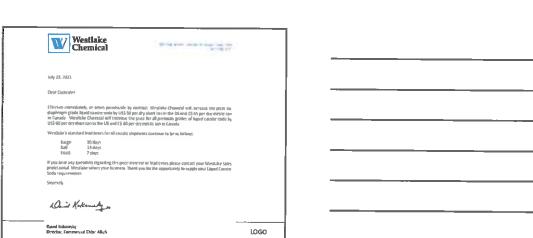
If you have any questions regarding this pada change, please contact your union professional Visionalists values the opportunity to supply your Chlorine requirements, and set union to each your business every day.

Daid Kakamaky in

David Kokowsky Director, Commercial Chior-Alkali

LOGO







280° Post Oak Blyd., Sude 600 Houston, TX 77056 Tel 713 960 5111

August 31, 2021

Dear Customer:

Effective interrecipilaty, or as permissible by contract. We satisfied at announcing in price impression for Chilonna (cold independently or seigned of an ECU) by USS 145 per alred coin in the United States, and CS 505 per market on in Canada. This increase is independently as gifteening supplyintermant balance of children and children for extraorders, this is in additional to previously announced poor informance.

Westfake's chlorine order management program (60%) nervane in effect with the standard lead time for all chlorine set alignments at 21 days.

If your have any questions regarding this price change please contact your sales professional. Westekn values the opportunity in supply your Calonine requirements, and sets store to same your business every day.

David Kokumely

Oned kotowsky Director, Commercial Chief-Alkah



2019 to 001 Sept 2 whom family 1800 to 1

August \$1, 2021

Bear Castomer,

Effective introductive, or releas permittible by starters). We clade C terrain will surraine the price for displacing practic legal country could by USS 65 per or of Juhrs 1 cm + the USs and CS 75 per dry matrix can be Country for Cou

Westshie's standard lood turns for all caratic phymies's continue to be us follows

Wid Kokenely -

David Kohongky Derector, Commercial Chips Affiais

LOGO



FANG PHOS, INC.

## Letters



FANG PHOS, INC.

Stuljani. Price humanes ette alva Oniosar s, tags To our valued oustomer,

I remaid that to there you for your pushings even suspent.

I are story to inform you that the restributure has transpend the price of Phospharic and to us by \$0 04% starting September 1, 2021 but we will hold our price moreous to you until Dowler 1, 2021. As we manufacted in a cartier latter that the price of Properties had gare. up by \$0.16-\$0.15(b) before \$15 price increase but one have not present on all the increases that merceschirer has passed on to us. At this tipps, we are not able to always the increase. We are having that the price increases on Prospinate and with sable down. We are continuing to storic with multiple sources on finding the best price and pase the sevings to our customats. I believe we are stall in a very competitive position as a phosphane and supplier.



FANG PHOS, INC.

Oslobar (1, 2021

Subject: Price increase effective October 11, 2021

To our valued nustomer

I would like to thank you for your business and aupport

un by \$0 10% on of test week tritticus any water. We are talk by Manudecturer that there is big sharings of Phospitasis and plobally and the cost of manufacturing has gave up substantially. Unfortunately, we as not have any divide but to space on the increase of \$ 19/ ib. on all grades of phosphoric edicles of today. Females sending you a US Producer Price lodex Chart, so you can see how the price has etemped from January 2021 to August 1021. We are hosting that the price increases on Phospitairs acid will eatile down. We are continuing to work with multiple accross on finding the best price and pass the savings as 2 of CLERCONS, I believe we are still in a very compatitive position on a phosphonic edge tunniler.



FANG PHOS, INC.

November 12, 2021

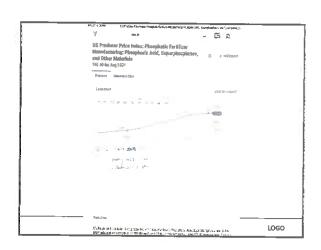
Subject Press increase effective Consumble 1, 2021

To our valued custament.

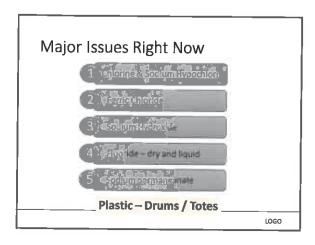
I neald like to thank yet for your basiness and support,

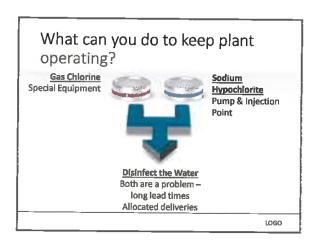
I are early to inform you that via received an enother notice from everydecturer lost meet of Colober 7071 that the prior at Phospharic and will be going up by \$.20% attenting November 1, 2011. We did not pass on the learnage is our velocitie suptances, hoping that the price will not each. We are told by Manufesterur first there is still shortage at Phosphatic artis globally and demond is bigh. After, the seat of menutestating had gave up substantially Unfortaneously all this little with derived there any efficient bull to prise delitine expresses of \$ 150 its entry on all gradua of phosphore acid me of Denember 1, 2021, We are happing that the ratio management on Therefore shall and contact down with one constituting to your with my type enuroes an finding the bast price and page the seeings to mar quaternare. I believe we are old in a way consisting person may obsorbers and expolar

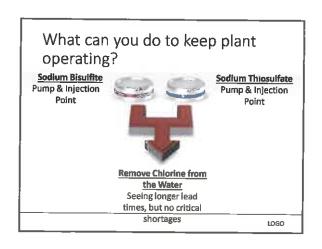


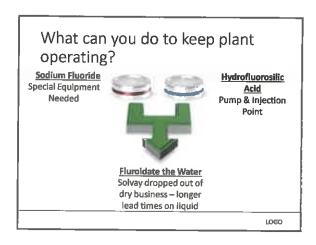


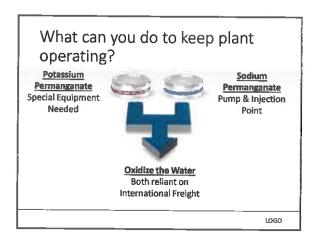


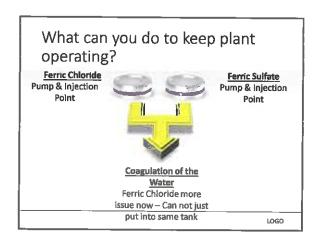




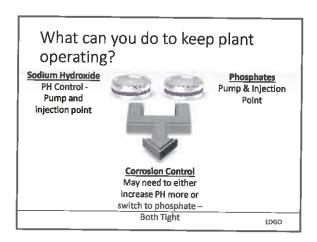


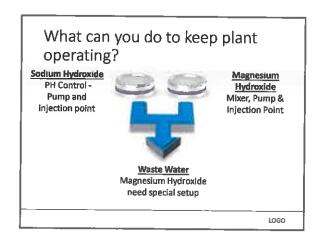


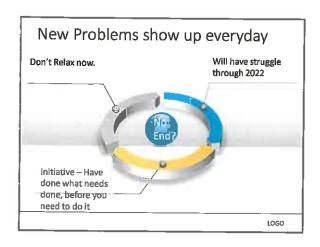


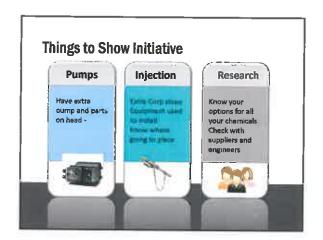


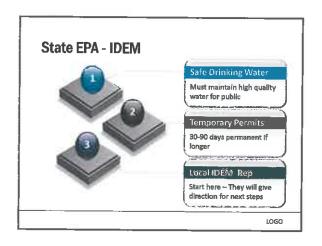
# What can you do to keep plant operating? Citric Acid Pump and injection point Clean RO Clean RO

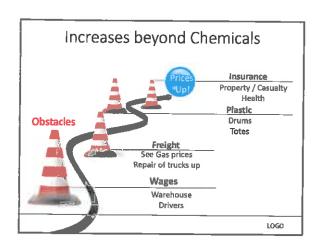


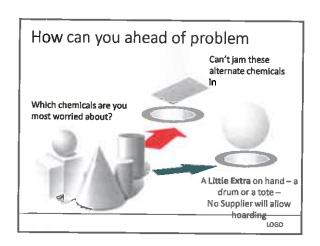


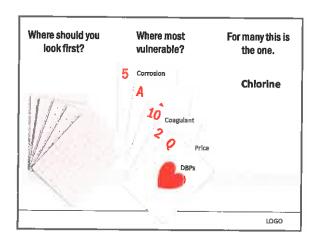




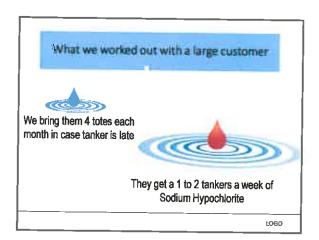




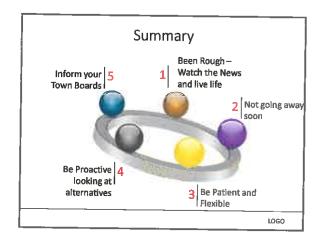












#### Questions

**Kentucky Representatives** 

Denver Blain - dblain@getwsu.com

270-589-1706

Troy Carrier – tcarrier@getwsu.com

606 - 669-8932

**Water Solutions Unlimited** 

Mike Ricks - mricks@getwsu.com

317-339-6639

LOGO

## Disaster Response for Utilities in Kentucky

Presented by
Kentucky Rural Water Association



- A Backer - Flore Commencer

#### Kentucky Rural Water Association

- Kentucky Rural Water Association is a key member of Kentucky's Management Agency
- Joe Burns Communicates with or travels to Kentucky Emergency Management Agency in Frankfort
- We support the Agency's actions as a representative of Kentucky drinking water and wastewater utilities

### KYWARN

- KYWARN is a statewide Water/Wastewater Agency Response Network (WARN) of "utilities helping utilities"
- KY WARN Mission: Support and promote statewide emergency preparedness, disaster response, and mutual assistance matters for public and private water and wastewater utilities.

#### December 11, 2021

- On December 11, 2021 Kentucky was impacted by a swarm of tornadoes
- At least 2 tornadoes were long track and on the ground for over 100 miles
- Many communities affected, Mayfield, Benton, Dawson Springs, Bremen, Bowling Green, and more.













































- Damage in Dawson Springs and other communities is incredible
- Many challenges facing the water and wastewater utilities
- Short term challenges

  - Immediate response, clearing road for ambulances
     Shutting off service to destroyed and damaged homes
- Longer term challenges
   Revenue?
   Will the residents return?

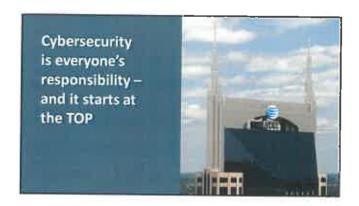
  - What if only a few return?
     Partial rebuilding in neighborhoods?





	Leadership	
	Knowledge	- 49
=	Practice	

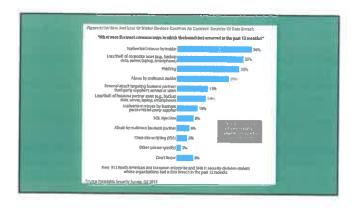
Leadership
Name of the last o
"Everything rises and falls on leadership."
John C. Maxwell

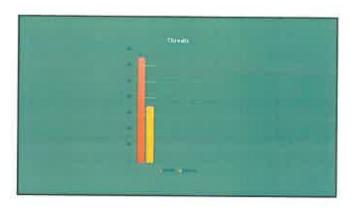


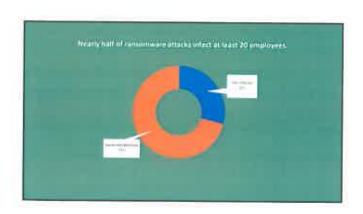
## Board of Directors Superintendent / General Manager Office Manager



Does not believe it will happen to them	
Never ask their IT vendor	
BREACHES HAPPEN	
Take responsibility	
Ask their IT vendor	
Because BREACHES HAPPEN	
Knowledge	
"If you think education is expensive, try estimating the cost of ignorance."	
Howard Gardner	

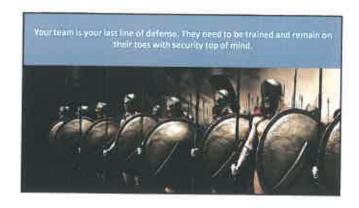






More than half (5) percent) of the data breaches attalyted at the report involved manware, 75 sectent of the breaches were financially motivated, and 75 sectent of security moderns were tracked buck to outside actors. This year is eport found that email was the No. 1 mailware delivery vector compared to last year when if was web drive by download attacks.	
2	
Every year, Venicon a resourchers point out that password insecurity is the biggest publish, and that hapfit changed. Venicon looked that BI GENERAL White happit changed through studen passwords or what planswords. That I am 18 percent internal from last year is report augusting that rather than getting better, password security is getting worke.	

## Why it does not happen Utilities don't talk about tybe/security or know much about if, we need to be talking about the basics. They are extremely swinerable occasio they don't have any resources for cybersecurity. When it comes to if accurity research reveals a lend commitment to investing in a strong security stance. **Practice** "Knowledge is of no value unless you put it into practice." Anton Chekhov Champion teams work at it.



## The Five Generations of Security Awareness Training





## Leadership "Everything rises and falls on leadership." John C. Maxwell



















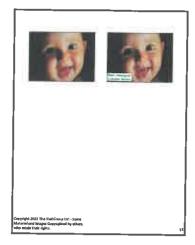








	_
	_
	_
	_
-	_
	_
_	
	-
	=
	-
	•
	-
	-



Qu.	 	
		-
_	 	
	_	





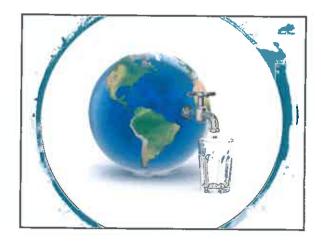


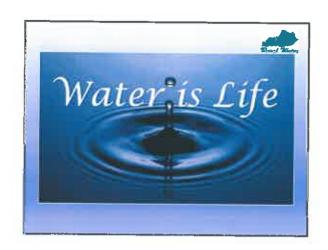






DP1 127 gallons of water to produce 1 pound of corn
Donald Papai, 2/28/2020

















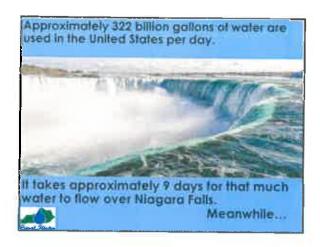


E			



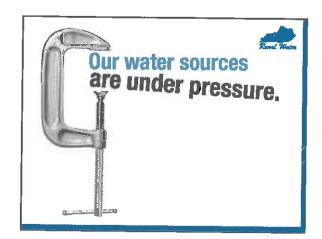


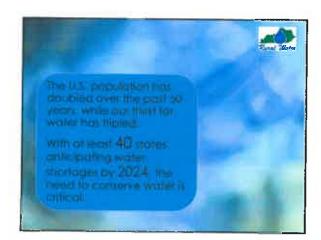




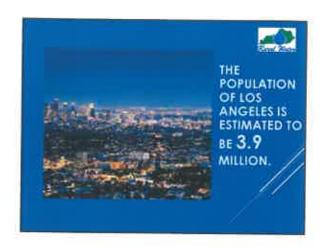


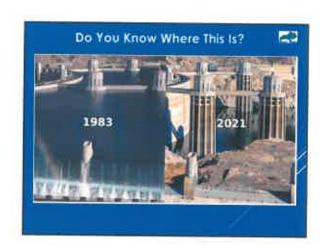








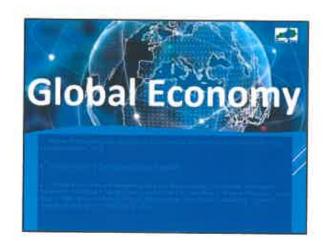




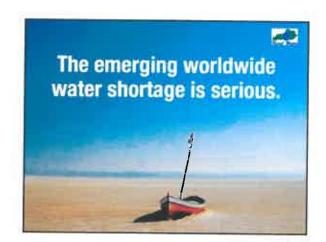




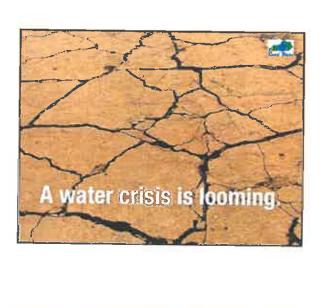




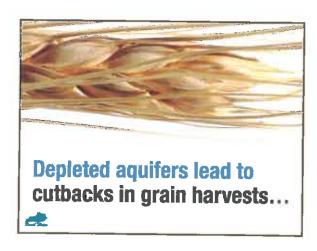






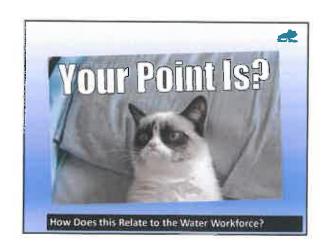


Due to over-pumping, the groundwater in several countries is almost gone.

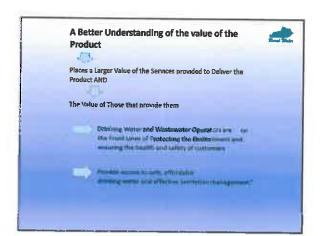










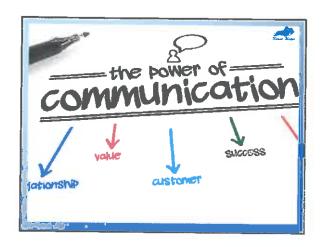


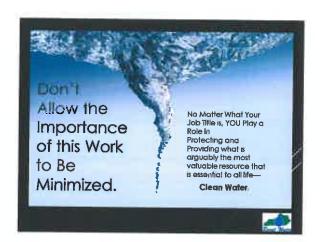






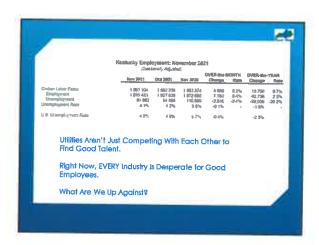






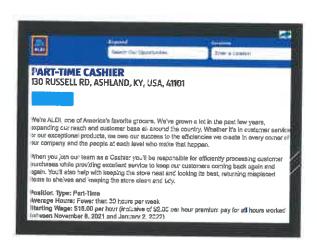






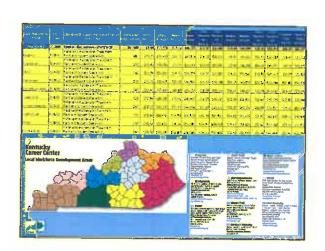






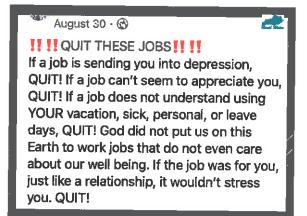






EXPECTATIONS OF OPERA	
Me Marcelly Spring	Transport responses
THE SECTION	Charles y
hand the same	17



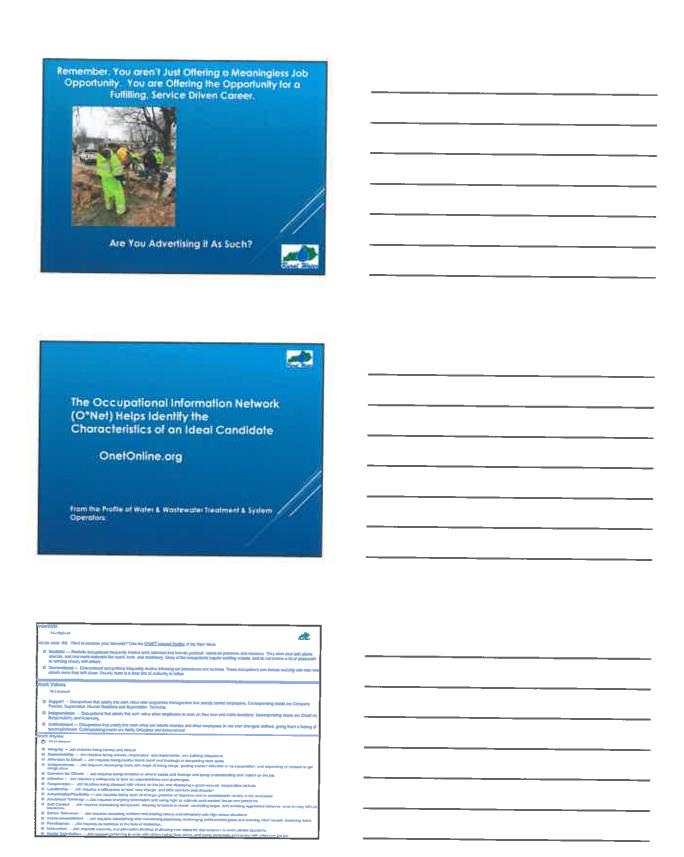




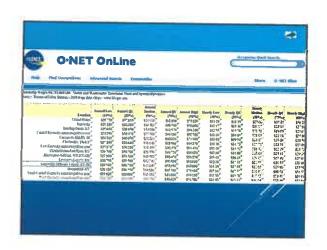




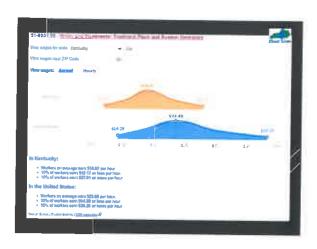


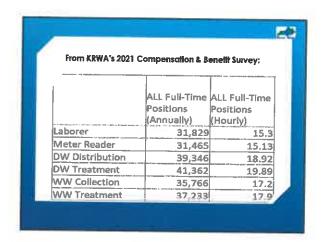






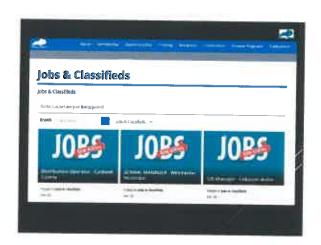




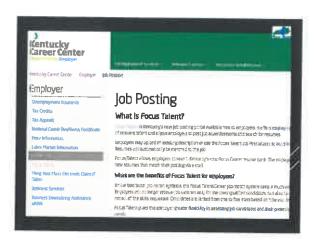


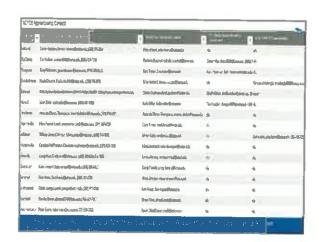








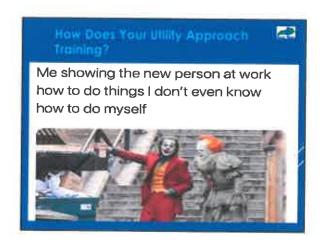


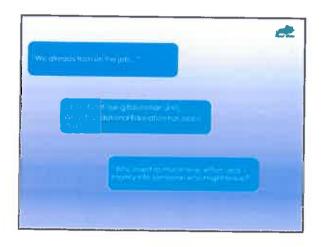


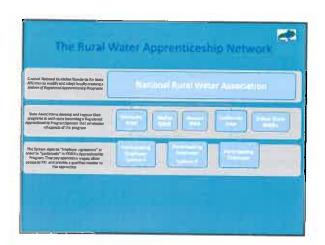


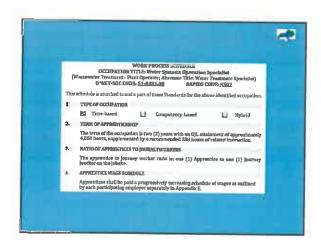




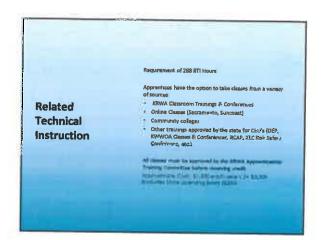


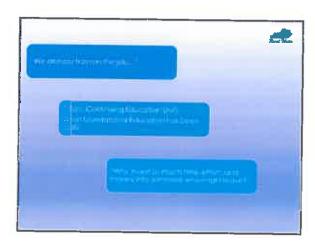


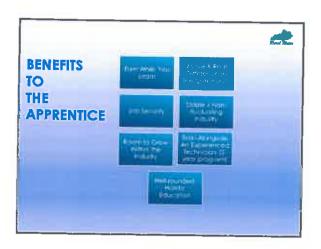


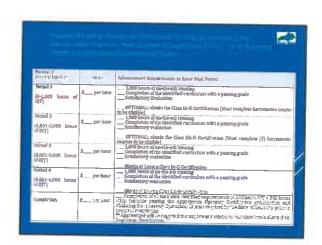


	All the Assessment Comments	_
200.00	To Appendix and Described Services	
	Name and and and the owner owners are	
	Description of the latest section of the lat	
	The state of the s	
	Contract of the Contract of th	
_	AND DESCRIPTION OF THE PARTY OF	
	# Name and Address of the Address of	
	The state of the s	
		_
	- Delleman	
	Name of Street, Street, or Street, and other party of the Contract of Street, Street, or	
	the state of the s	
	AND REAL PROPERTY AND ADDRESS OF THE PARTY O	
	The state of the last of the l	
	THE RESIDENCE AND ADDRESS OF THE PARTY.	
	Management and some state of some state of	
	NAME AND POST OF THE OWNER, WHEN PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, WH	
	The state of the latter of the	
		_
	The second secon	
	The Artist Address of the Control of	
	The second secon	
	The street of th	
-		
-	The state of the s	
-	The sales are a second as a se	
	THE RESIDENCE OF SHARP SHAPE S	
	The second secon	

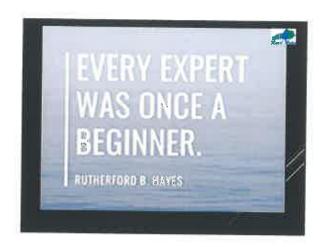
















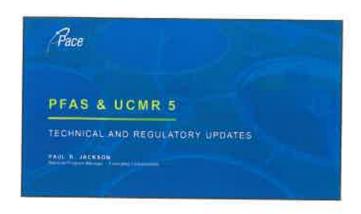


Session 9: Asset Management Dashboards

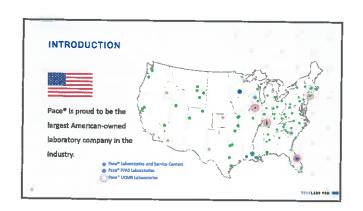
Presenters: Dustin Horn and Rusty Anderson, Kentucky Rural Water Association

This session will not use a PowerPoint but will be a live demonstration of the asset management tool and the dashboards that have been created to make using the tool simple for users.

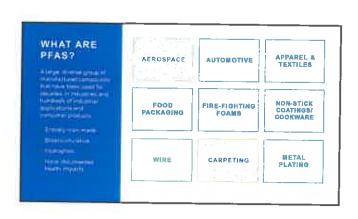
Geographic Information Systems (GIS) is technology that allows various types of data to be displayed and analyzed spatially. This session will be a showcase of tools that are being developed by Kentucky Rural Water to help utilities improve asset management through GIS technology. Highlights of this session will include showing the power of GPS locating assets within a water or wastewater system, visualizing analytics through operational and dynamic dashboards, and creating tools that help office staff and field staff become more efficient in daily operations.

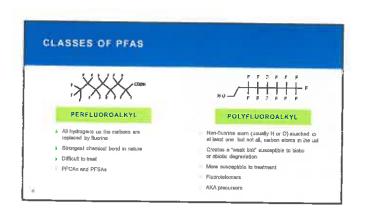


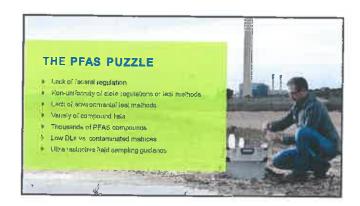




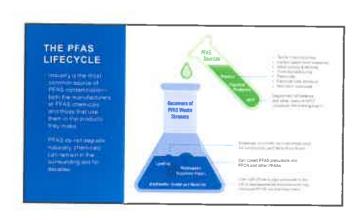
PFAS (per and polyhorodoxy substance)
often referred to as forever chemicals
due their chemical structure and
persistence. Some PFAS such as
PFOA and PFOS have been phased out,
however, contamination remains.

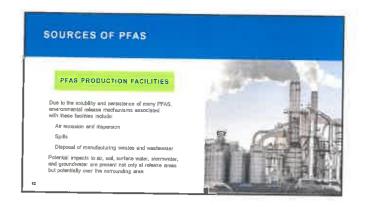








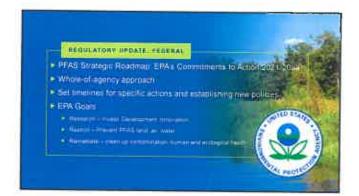


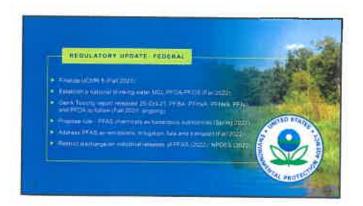




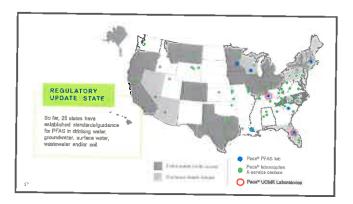


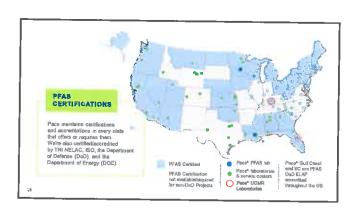




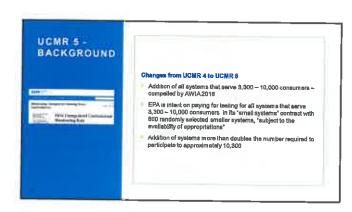


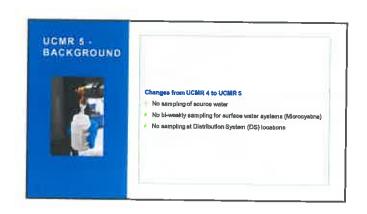






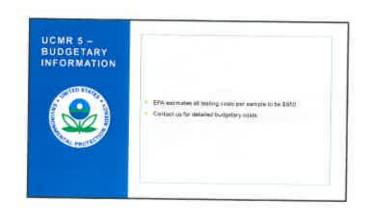
### UCMR - The Unregulated Confaminant Menitoring Rule of the SDWA Every 5 years EPA uses the Unregulated Contaminant Monitoring Rule (UCMR) to collect data on up to 30 contaminants that are suspected to be present in drinking water and do not have health-based standards set under the Safe Drinking Water Act UCMR is not a compliance monitoring program, the data is studied to consider adding contaminants to the regulated liat with enforceable limits Two PFAS are examples of this – PFQA and PFQS

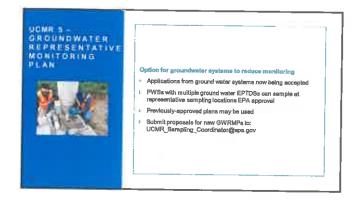


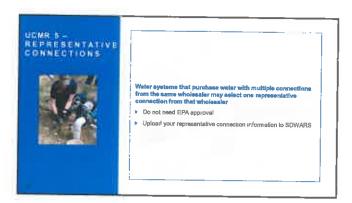


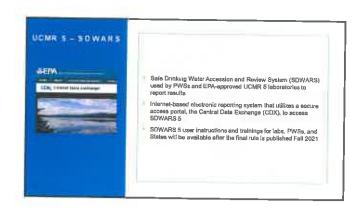
### UCMR 5 contaminants and sampling UCMR 5 contaminants and sampling 20 PRHS contaminants by EFA 33 1 and EFA 332 — each sample Elle required to include 1 Fixed Respect Bure part method Literary (EFA 303 T) Remitting at the Ermy Point Ruths Database (EFFTDS) Ell POLICYON Ell POLICYON Eller POLICY

# UCMR 5 — SAMPLING SCHEDULE LEPA will assign a 12 month semigrop achocode for each dynamic instrument Jernamy 2003 — December 2005 Grownheader Systems — sample seed: Empy Parel to the Cart Indian Relation Relation (RFDD)— seem shaling a 12 commentive month president and Chromosomer Unider December (NAMED) signature — sample quarterly strong a 12 comments period















### **Regulatory Updates**

Arianna Lageman January 5, 2022



### **DOW-DWB, Compliance Contacts**

- Alicia Jacobs Branch Manager, <u>Alicia.Jacobs@ky.gov</u>
- \* Ethan Givan Compliance Supervisor, Ethan.Givan@ky.gov
- Julia Harrod Chemicals, Secondary, RADs, Lead/Copper <u>Julia.Harrod@ky.gov</u>
- Rodney Ripberger RTCR, GWR, Inventory <u>Rodney.Ripberger@ky.gov</u>
- Tekoyia (TK) Brown MOR, Inventory, DBPs, LT2 <u>Tekoyia.Brown@ky.gov</u>
- \* Cortni Edwards CCR/PN Cortni.Edwards@ky.gov

- Sugar Land West Some in

### DOW-DWB, Technical Assistance

- Joe Uliasz Frankfort Central Office, Supervisor
- Gabe Tanner Frankfort and Louisville
- Matt Lipps Florence and Morehead
- David Messer London and Hazard
- CJ Bailey Columbia and Bowling Green
- Jackie Logsdon <u>Madisonville</u> and Paducah

### Reminder from DOW

 Please use the Kentucky Online Gateway for ALL compliance document submittals.

### What are PFAS?

Perfluoroalkyl and Polyfluoroalkyl Substances



- Durable chemicals: oil, water, temperature, chemical and fire resistance
- Insulating properties

A Zonacha Zandi Wari - Formani w

### What are they used for?

- Wide variety of manufacturing applications
   Fire fighting foam (AFFF)
- Carpet protectant
- Non-stick cookware
- Waterproof clothing
- Surgical gowns
- Cell phones (any electronic device with a semi-conductor)
- Commercial alreraft
   Low-emission vehicles
- Some make up, sunscreen, shampoos, shaving creams
   Food packaging (like fast food wrappers)

### UCMR5

- Any system > 3,300 population automatically must participate in UCMR5
  - Smaller systems may have to participate and EPA chooses who does based on population size and water source
  - EPA will still pay the tab for systems smaller than 10,000 (provided the federal funding is available)

		444		
-463	Sogres	z , Zuro	There is a	brosse tone



<u>.</u>	 	 	
<del>-</del>			

### **Regulatory Action**

### PFAS Roadmap announced:

- Set MCLs for DW under SDWA
- Designate PFAS as "hazardous" under CERCLA (Superfund)
- More research to include PFAS emissions limits under Clean Air Act
- Simultaneously announced that PFAS will be labeled "hazardous" under RCRA as well.

### Research

### **Division of Water Studies**

- Evaluation of Kentucky Community Drinking Water for Per- & Poly-Fluoroalkyl Substances; November 18, 2019
- Evaluating Kentucky Source Waters for Per- and Poly-Fluoroalkyl Substances; August 4, 2021
- In progress: Study to test for PFAS levels in WW discharge and solids

### Litigation

- NRWA filed a class action lawsuit against 3M, Tyco Fire Products, National Foam, Buckeye Fire Protection, Chemguard, DuPont, and Chemours
  - Suit alleges that these companies "manufactured, marketed and sold their aqueous film forming foam (AFFF) products for decades despite knowing the significant threat they posed to the environment and human health" – Napoli Shkolnik PLLC

https://nrwa.org/issues/pfas/

### **CCR Rule Revisions**

- CCR regulations are being updated to "improve communication" with customers
- CWSs serving greater than 10,000 persons will be required to issue CCRs twice per year.
- A workgroup is making recommendations to the National Drinking Water Advisory Council

### Cybersecurity

 The U.S. EPA has floated draft legislation to give EPA new regulatory authority for cybersecurity risk assessments, cybersecurity risk reduction plans, schedules of adoption countermeasures, reviews of the current risk and resilience assessments and emergency response plans, etc.

### **Lead and Copper Rule Revisions**

 LCRR published and finalized December 17, 2021. The LCRR will go into effect to "support near-term development of actions to reduce lead in drinking water."

### **BUT**

 With the caveat that there would be a Lead and Copper Rule Improvements (LCRI) drafted and finalized prior to the LCRR compliance deadline of October 16, 2024.

### LCRR and LCRI

- Line Inventory due by October 16, 2024:
  - Lead
  - Galvanized
  - Other
- · LCRI aim to clarify:
  - Compliance Tap Sampling
  - Action vs Trigger Levels
  - Requirement to replace ALL lead service lines
  - Prioritization for Historically Underserved Communities

### LCRR and LCRI

- Biden-Harris Lead Pipe and Paint Action Plan
  - Remove all lead pipe in the next decade
  - Earmarks money for lead line, faucet, fixture replacement through the Build Back Better Act and American Rescue Plan Act
  - KY's Total: \$112,643,00
    - DWSRF: \$29,587,000
    - LSL Rep: \$46,593,000
    - DW EC: \$12,425,000

Sentence Barrel Thank Theoreman

A URBENTED B	TINAL BLASHOLDER
Action Level (AL)	and Trigger Level (TL)
<ul> <li>40° precentile (1900) level above level A1 of 15 µg L vs copper A1 of 1 1 mg L vs copper A1.</li> </ul>	• 90% percenter (P90) tower from the 64 At of 15 ng X or copper At of 15 ng X. or copper At of 15 ng X. or copper At of 15 ng X. or copper At or co
Load and Coas	ur Top Menitoring
Sumple blue belection	Sample Site Selection
<ul> <li>Presentary delications of sumples from with sources of lead to contact to the depolacy, water</li> </ul>	Change's priorities by collection of samples with a greater focus on  I M.
<ul> <li>Highest property gaves to ones were oil by copper pages with lead stoller unstalled after 1982 but before the state but one fend pages and of 1.6.</li> <li>histories must collect 40° and samples from I.M.« If oxiziable</li> </ul>	<ul> <li>Printmers collecting samples from sizes onseed by [54 s. al] samples must be collected from sizes served by [54 s. ii in adoble.</li> <li>No distinction in provintmation of copper pipes with lead solder by invalidation door.</li> </ul>
	<ul> <li>Improved top sample our selection terring expects.</li> </ul>
Cultivation Proceedings  Newspaper collection at the first intersample after make four car	Collection Procedure
en done, a muserima of 9 feories	<ul> <li>Requires collection of the fath-feer completion homes with 154 valves in their law and stagment for a minorism of thours and interments fare born compliant producted as homes without 5-4 is valid requirement that variables made to effected in wade amounts homes.</li> </ul>

### "dinnitoring I ecquency of continues and a continue of continues of continues are continued to continue of continues and continues and continues are continued as a continue of continues and continues are continued and continues and continues and continues are continued and continues and continu Numitoring B engareary Numer swapfer may be underself joi emb. lead when fead institutional so reads to startly may be underself joi emb. lead when fead institutional so reads to discover frequently films engages so reads to discover frequently films engages so reads to discover frequently films engages so reads to discover and the startly films of the startly films in 18 gas 1, seems annuable, at the standard number of startly 1840 - 18 gas 18 / seems annuable, at the standard number of startly 1840 - 185 gas 18 / seems annuable, at the standard number of startly a Amuscalls, at the standard number of start in a precture side except suppose 186 gas compared the startly in a sequence startly except to the startly presented ferred in not considered. 9 laces 9 starts, have do no customs and required for a 9-A-cit or material greatery. Same Same Sand There's Secretary E oranion is extend formation (CET) and Dates (Study Personation (DISPL) 14.7 s. \*\*Sustant terming. \*\*Solida specific more required to attribil transmission by Sustant 1. 100° mile broader exceptions. \*\*Sustant 1. 100° mile broader exceptions. \*\*Sustant 1. 100° mile broader exception 3. 30° mile service of \$1.7 to \$1.00° mile service of \$1.00° mile (fars the fill proproposate for you rooth by Walland C 19 and g a construction to the property of the second section of the section of the second section of the sec This is C. F. there is no directly to first of impressed to promise a gran, " If the C. F. J. terms dischool the shape the re-optionate age to V. F. as specially of the C. F. J. terms dischool the shape the re-optionate age to V. F. as specially on the control of the C. F. and the C. And 4.1.1 Options: Includes all allows and pld adjustment, rathones for these adjustment, and plusquinter or who die based softwares makehone. Beginner of who die based softwares makehone. Beginner 18.197. Beginn Regulated th Colin. of Sompose's Michigard for each more bondown to a substantive object to the colonial compounts of a substantive object. H-CP Monthsoling: \* 54-MeVA: soft-lag: \* \*0-000 people mass continue anyolise th CP meraturang of pure-pounts and section for distribution statums. A Systems were sign. Settling people spent contained by the meaning of Systems people spent contained by the meaning and the meaning results of the meaning periods. If the meaning periods are spent of the two contained by the people of the set of the people of the set of the people of the set of the people o Contains proviously by sample at reduced morphet of sites in distribution of serial line frequency. For all 5x views meeting their FFR 130s. handary howey Berlew) 9 Is statement their the presence distinctly sundary statemen the aposition of propositions for aposition of parameters are sundary statements. The Margine Hand model File. Non-consected follows up namptine on additionaril as factor of no authoritical statements. It is a parameter of the 
Falicial End Program Architeles:

9 Notices serve reprincil to complete a statistical on aliastons has the sone of statistical configuration. You consider the statistical configuration for the statistical configuration of the ESA R plant is considered.

LKI from

and ASS It Plant Initial S.N. Prop

Biblist LNI Programs Aprily blice.

All taxters must de Ledy on 15 M in tensor see demonstrate alternacy of 15 M to tensor between the LNI to the State of 15 M to 15 M t

A victime water plane, the 14 by process the verse and and refer to replace  * Solid 14 fit pound 15 fit and 15 vice sits and consideration in the consideration of the considera
spectrum and suppliers [1 M is midm of a versor appliers.] I so specific flowers a factor of the spectrum and the spectrum an
* 6 fish half \$1 \$10 ft (when continuing warmed and ex-section-search particulars  * visit in and it medically state or age (2.64 ft statistics)  * \$10 section regulars flowing pricing or age (2.64 ft statistics)  * \$10 section regulars flowing pricing or age (2.64 ft statistics)  * \$10 section regulars flowing pricing or age (2.64 ft statistics)  * \$10 section regulars flow pricing or age (2.64 ft statistics)  * \$10 section regulars flow pricing or age (2.64 ft statistics)  * \$10 section regulars flow pricing or age (2.64 ft statistics)  * \$10 section regulars flow pricing or and regulars flow or age (2.64 ft statistics)  * \$10 section regular flow pricing or admit pricing or admit particular flowing pricing or admit pricing flowing pricing or admit pricing flowing flowi
Spire of the right control. If the a visitory about rightar the river steps is provided to the river of the r
* Colore to place the Marian   100 days.  * Reviewing (a.m.) It is a vision many of the colored to be enabled to
R. without a based starp simple or an Austration week and glo a supplicated discussion.  **Modern New Section
US1-Related Outrooch: LNL-Related Outrooch:
Where nature is stem plane to replace the postton at sound infer notice to replace the postton at sound in the nature cartenature; amount to the postton at sound in the nature is expense.  It is stem cartenature, a mount to the continuous areas as the continuous areas areas areas areas areas as the continuous areas ar
to replacement in provide extracted duest-nerm lead by the a passe to replacement in provide extracted duest-nerm lead by the mail instructive to management provides and market the mail instructive to management proposition.  Control on a distribution of additional duest-nerm lead by the mail instructive to management proposition.  Control on a distribution of additional duest-nerm lead by the mail of the management of the
an, indire office to crellere's legal kap sample or mines 72 homes of  **Spring came.**  **Print det trel results is isken 1 bestones dats after necessing session  **Print det trel results is isken 1 bestones dats after necessing session  **The company of the c
Sented System Recording No provious for as afternoon to effect an afternoon recomment approves he afternoon We seem me + 10 000 mented and all NTM We to the form
Long-special care for a substraint growth or adolphoral growth deposition foundation are constraint.  4. A receive the comparies of a first growth or adolphoral growth deposition for our deposition of the comparies of the compa
Control of Bertol Merce Annualisa
O ARE the homeometry of the command
Printings stiple Mart and provide Plans interests about Real reasons in the control of the control and the con
MATERIAL III (region facility that the data and incoming provide—  E. Antonium and a continue that II is it is get IV is anomated. Introduced  To add in interpretation of the IV is get IV is anomated. Introduced  To add in interpretation.  On the continue to the IV is a get IV is anomated. Introduced  On the continue to the IV is anomated in introduced.  On the continue to the IV is anomated in interpretation of the IV is anomated in interpretation.  On the IV is a supplied to the IV is anomated in its an
o R Para. A.1  I survicin PP Ancienterania Appli.  Derivação Barca Anciente Sanciença e a Para. A.1 maritus 2 de la curs.  In Anciente ("Maritus Qualitation ("Maritus Qualitati
Divisor notes, and other should approach to represent daying to start related and the should be a start of the should be approached to the final day and the should be approached to the should be a should be approached to the should be approa
to compare to 1 to page 1 on normal any process about two son looks those it does not see that the son of the
Notation on a reduced the considerancy is should make of all state process.  Separation and present substracting in the contraction of the contrac
Some an any deposituation of the state of th

		1
	1	
Does not an hale separate include and white atms programs for EWNs at schools and child care the later.  Nationals and child care that are charactered so Nation Was many	of child one facilities per you and conduct sampling at secondars a book on request for I testing cycle (Cycars) and conduct sampling	
	or requires at all schools and while are tracitizes thereafter.  Sample revision of PF miss the provided to rech sampled, school child care, primace agency and local so state health department.  Fix the later facilities built on replaced all plumbing often January. 1  2114	
maxy. Agents of a must repose inflormation, to E $(A, B)$ that includes but to bursted to	Uspands current requirements to include  v Aff Pod schoes for all stratem sacra	
All Distribution of the systems servang. White prospile and only known. 19 pg 1 for smaller systems. No stress that are conjugated to manage 2 50 H and the date replacement. Histological.	* The current musher of 1 M s and lead status onlinears service lines	
We describe for reduced approximate approximate from the $\theta$ - $\theta$ -free freezing designated	The United States of the Unite	
- Ranness Sa	1. St. States Association	
Quest	ions?	
Quest	.10115 :	
	1	
Arianna I	Lagaman	
Arianna I	-ageman	
<u>a.lageman</u>	@krwa.org	
_		

### Upcoming Changes to NSF Drinking Water System Components Program (NSF-600) No Need to be Afraid

Steven Roetter, PE Business Development Manager – Water The Sherwin-Williams Company



### **Advantages of UHS Epoxy**

- NSF 61/600 Extractables Changes
- AWWA D102-17 Systems
- Return to Service Time
- VOC Content
- Edge Retention MIL PRF 23236
- OAP Inspection
- Application Equipment, Details & Challenges

### Proposed NSF 61/600 Changes

Composition			
Darwood Charles	Advalle .	0.0400 604	(accodute
Performentance (CPCA) & Performentage acid (PPD6)	393	0 0710 007	Potebasi nava comply by 1/1/2020
Tripfishylyhosphine Oxide	203	10.5	Provide of Capping 19
icael Wylonese.	10 000/1000	Era .	Product must comply by 1722/2021
Yelsome	1020/102	606	Professional completely 9170069
Emil Servence	70070	140/14	Predect must oursely by

### **AWWA D102-17 Linings Systems**

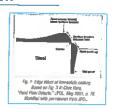
- AWWA D102- ICS#1 2 Coat Bpoxy 8 Mills DFT
- AWWA D102- ICS#2 3 Coat Epoxy 12 Mils DFT
- AWWA D102- ICS#3 1 Coat UHS Epoxy 20 Mils DFT
- AWWA D102-IC\$#4 1 Coat UH\$ Elastomeric Polyurethane 25 mils DFT
- AWWA Di02 ICS#5 3 Cost Zinc/Epoxy/Epoxy-10 Mils DPT
- AWWA D102 ICS#6 ~ 2 Coat Zinc/Bpoxy ~ 12.5 Mills DPT

### AWWA D102-17 ICS #3 UHS Epoxy



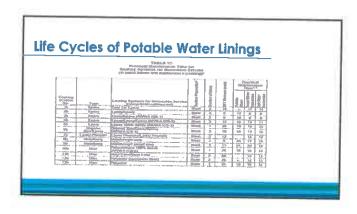
### MIL-PRF 23236 Edge Retention

- Edge Retention Essential on Leading Edges & Angles
- Coating & Linings Typically Shrink Back During Cure.
- Early On-Set Corrosion Happens on Leading Edges
- MIL-PRF 23236 Requires a Lining Maintain a Minimum of 70% DFT at 90° Angles.
- Testing Developed By The US Navy



## MIL-PRF 23236 Edge Retention Standard Spozy System 100% Solids Edge Retentive System

-		N		
			1	
99CW tringen		4		



### **Life Cycle Costing of PW Lining Systems**

System	Total DET (NSN)	Teal Squire Feet	author Cost	dilateral Cost	Tetal Cas	Serzga life	Avoice and Cost
iC\$41		25,000		0.62			\$1,82
			\$12,000	\$16,250			
105-172	12	75,000	15	0.85	\$59,800	1	53,9
			31,250	21,250			
12.12	10.5	25,000	\$1.56	\$0.42	59,000	16	\$1,6
			\$28,500.00	\$20,500.00			
I343	20	25,000	<u>\$191</u>	A.R.	\$68,000	11	\$3,77
			\$17,750	\$20,250			
	1						

### **Application Equipment & Details**



### **Application Equipment & Details**





Advantages of UHS Epoxy in Potable Water	
Thank You	
Questions?	