

COMMONWEALTH OF KENTUCKY  
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

ELECTRONIC INVESTIGATION INTO THE	)	
IMPACT OF MADISON COUNTY FISCAL	)	CASE NO.
COURT'S USE OF MADISON COUNTY UTILITIES	)	2021-00422
DISTRICT'S SYSTEM FOR ITS FIBER OPTIC	)	
CABLE INSTALLATION PROJECT	)	

NOTICE OF FILING

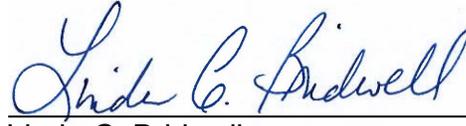
Notice is given to all parties that the following materials have been filed into the record of this proceeding:

- The digital video recording of the evidentiary hearing conducted on August 24, 2022 in this proceeding;
- Certification of the accuracy and correctness of the digital video recording;
- All exhibits introduced at the evidentiary hearing conducted on August 24, 2022 in this proceeding;

A copy of this Notice, the certification of the digital video record, and hearing log have been served upon all persons listed at the end of this Notice. Parties desiring to view the digital video recording of the hearing may do so at <https://www.youtube.com/watch?v=L5V9YCaATi4&feature=youtu.be>.

Parties wishing an annotated digital video recording may submit a written request by electronic mail to [pscfilings@ky.gov](mailto:pscfilings@ky.gov). A minimal fee will be assessed for a copy of this recording.

Done at Frankfort, Kentucky, this 5<sup>th</sup> day of October 2022.

A handwritten signature in blue ink that reads "Linda C. Bridwell". The signature is written in a cursive style with a large initial 'L' and a distinct 'C'.

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Linda C. Bridwell

Executive Director

Public Service Commission of Kentucky

COMMONWEALTH OF KENTUCKY  
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

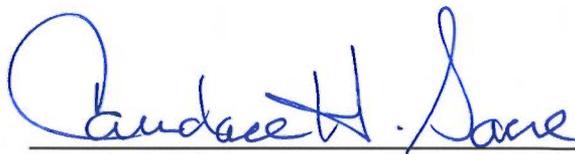
ELECTRONIC INVESTIGATION INTO THE	)	
IMPACT OF MADISON COUNTY FISCAL	)	
COURT'S USE OF MADISON COUNTY	)	CASE NO.
UTILITIES DISTRICT'S SYSTEM FOR ITS FIBER	)	2021-00422
OPTIC CABLE INSTALLATION PROJECT	)	

CERTIFICATION

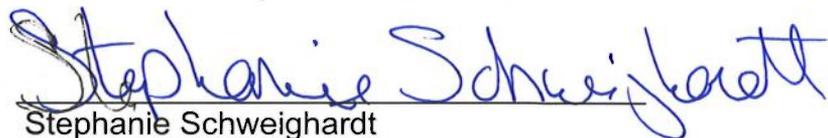
I, Candace H. Sacre, hereby certify that:

1. The attached flash drive contains a digital recording of the Formal Hearing conducted in the above-styled proceeding on August 24, 2022. The Formal Hearing Log is included with the recording on August 24, 2022;
2. I am responsible for the preparation of the digital recording;
3. The digital recording accurately and correctly depicts the Formal Hearing of August 24, 2022; and
4. The Formal Hearing Log attached to this Certificate accurately and correctly states the events that occurred at the Formal Hearing of August 24, 2022, and the time at which each occurred.

Signed this 4th day of October, 2022.



Candace H. Sacre  
Administrative Specialist III



Stephanie Schweighardt  
Notary Public State at Large ID#: 614400  
Commission Expires: January 14, 2023



**Session  
Report -  
Detail**

**2021-00422  
24Aug2022**

**Madison County  
Utilities District  
(Madison  
Utilities)**

<b>Date:</b>	<b>Type:</b>	<b>Location:</b>	<b>Department:</b>
8/24/2022	Public Hearing\Public Comments	Hearing Room 1	Hearing Room 1 (HR 1)

Witness: Brandon Baxter; Fred Buckenmeyer; Jim Carr; Dustin Heiser; Chris Iseral; Mike Parker; Reagan Taylor  
 Judge: Kent Chandler; Mary Pat Regan  
 Clerk: Candace Sacre

<b>Event Time</b>	<b>Log Event</b>	
9:05:31 AM	Session Started	
9:06:09 AM	Chairman Chandler Note: Sacre, Candace H	Good morning. We are on the record in Case No. 2021-00422, electronic investigation into the impact of Madison County Fiscal Court's use of Madison County Utilities District system for its fiber optic cable installation process.
9:06:24 AM	Chairman Chandler Note: Sacre, Candace H	My name is Kent Chandler. I am Chairman of the Kentucky Public Service Commission. I'll be presiding over hearing today. Joining me is Commissioner Mary Pat Regan.
9:06:32 AM	Chairman Chandler Note: Sacre, Candace H	Hearing recommendations. (Click on link for further comments.)
9:07:32 AM	Chairman Chandler Note: Sacre, Candace H	The hearing today is for the purpose of taking evidence in this matter, including the examination of witnesses.
9:07:38 AM	Chairman Chandler Note: Sacre, Candace H	Entry for appearance of counsel.
9:07:47 AM	Atty Patterson Madison Utilities/Kirksville Water Note: Sacre, Candace H	Jeb Patterson, representing Madison Utilities and Kirksville Water.
9:07:55 AM	Atty Haymond Madison Fiscal Court Note: Sacre, Candace H	Jennie Haymond, Madison County Fiscal Court.
9:08:00 AM	Staff Atty Colyer PSC Note: Sacre, Candace H	Jason Colyer, for Office of General Counsel.
9:08:03 AM	Staff Atty Tussey PSC Note: Sacre, Candace H	Mariah Tussey.
9:08:04 AM	Chairman Chandler Note: Sacre, Candace H	Public notice. (Click on link for further comments.)
9:08:25 AM	Chairman Chandler Note: Sacre, Candace H	Public comment. (Click on link for further comments.)
9:09:37 AM	Chairman Chandler Note: Sacre, Candace H	Anything need to take up? (Click on link for further comments.)
9:10:52 AM	Chairman Chandler Note: Sacre, Candace H	Procedural discussions. (Click on link for further comments).
9:11:30 AM	Chairman Chandler Note: Sacre, Candace H	Call first witness.
9:11:34 AM	Atty Patterson Madison Utilities/Kirksville Water Note: Sacre, Candace H	Opening statement. (Click on link for further comments.)
9:12:03 AM	Atty Patterson Madison Utilities/Kirksville Water	

9:12:16 AM Note: Sacre, Candace H Call Judge Taylor.  
Chairman Chandler

9:12:27 AM Note: Sacre, Candace H Witness sworn.  
Chairman Chandler - witness Taylor

9:12:41 AM Note: Sacre, Candace H Direct Examination. Name and address?  
Atty Patterson Madison Utilities/Kirksville Water - witness Taylor

9:13:02 AM Note: Sacre, Candace H Cross Examination. Give background before Judge Executive?  
Atty Patterson Madison Utilities/Kirksville Water - witness Taylor

9:13:07 AM Note: Sacre, Candace H Lifelong resident?  
Atty Patterson Madison Utilities/Kirksville Water - witness Taylor

9:13:10 AM Note: Sacre, Candace H Educated in Madison County schools?  
Atty Patterson Madison Utilities/Kirksville Water - witness Taylor

Note: Sacre, Candace H Background in construction have working knowledge of water systems, water pipe, water flow, water pressures, those kinds of issues?

9:13:33 AM Atty Patterson Madison Utilities/Kirksville Water - witness Taylor

Note: Sacre, Candace H When take office, how long Madison County judge-executive?

9:13:47 AM Atty Patterson Madison Utilities/Kirksville Water - witness Taylor

Note: Sacre, Candace H Growth and changes seen in Madison County?

9:14:13 AM Atty Patterson Madison Utilities/Kirksville Water - witness Taylor

Note: Sacre, Candace H Have much choice but to be forward thinking how run county?

9:15:15 AM Atty Patterson Madison Utilities/Kirksville Water - witness Taylor

Note: Sacre, Candace H Take that formula and apply to whatever comes along?

9:15:20 AM Atty Patterson Madison Utilities/Kirksville Water - witness Taylor

Note: Sacre, Candace H Bluegrass Army Depot, what it is, what means to Madison County?

9:16:04 AM Atty Patterson Madison Utilities/Kirksville Water - witness Taylor

Note: Sacre, Candace H Heiser director of CSEPP program?

9:16:10 AM Atty Patterson Madison Utilities/Kirksville Water - witness Taylor

Note: Sacre, Candace H First aware of project to upgrade fiber optic, what did you understand problem to be solved was?

9:17:02 AM Atty Patterson Madison Utilities/Kirksville Water - witness Taylor

Note: Sacre, Candace H That is for purpose of if is nerve gas release, information be disseminated quickly?

9:17:29 AM Atty Patterson Madison Utilities/Kirksville Water - witness Taylor

Note: Sacre, Candace H Learned issue needed upgrade fiber optic cable, what was charge to staff as related to upgrade?

9:18:00 AM Atty Patterson Madison Utilities/Kirksville Water - witness Taylor

Note: Sacre, Candace H Federal government pay for upgrade, could have taken money, run on towers, and be done with it?

9:18:42 AM Atty Patterson Madison Utilities/Kirksville Water - witness Taylor

Note: Sacre, Candace H After applied risk/benefit analysis and options available, one system stood out more than any other, Craley system?

9:20:02 AM Atty Patterson Madison Utilities/Kirksville Water - witness Taylor

Note: Sacre, Candace H When started process, what communicate to utility companies and their role?

9:20:50 AM Atty Patterson Madison Utilities/Kirksville Water - witness Taylor

Note: Sacre, Candace H Any question in your mind this process best system and in best interest of people of Madison County?

9:21:20 AM Staff Atty Colyer PSC - witness Taylor

Note: Sacre, Candace H Who with county have explored costs of option?

9:22:43 AM Atty Patterson Madison Utilities/Kirksville Water

Note: Sacre, Candace H Nothing further.

9:22:47 AM Chairman Chandler

Note: Sacre, Candace H Questions?

9:23:12 AM Staff Atty Colyer PSC - witness Taylor

Note: Sacre, Candace H Cross Examination. Who first came to you about upgrading emergency communication system?

9:23:31 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Who first brought to attention using water lines to run fiber optics?

9:23:46 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Discuss with you using any other solution or contractor other than Craley?

9:24:20 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Responses, data requests 2021-00218, Madison County Utilities provided information on costs alternate methods running fiber optics, fiscal court provide that data?

9:24:52 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Alternate methods for running cable discussed?

9:25:44 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Discuss using pole attachments at all?

9:25:55 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Reason why not have discussed pole attachments?

9:26:12 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Hire engineer review Craley plans or specifications for project?

9:26:27 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Know how Brandon Baxter became involved?

9:26:56 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H County obtain services or did Madison Utilities?

9:27:15 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H How approach Madison Utilities about fiber optic plan?

9:27:42 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Carr and Long from Kirksville at that meeting?

9:28:28 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Someone else works for county may have first discussed project?

9:29:04 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H At that meeting, anyone from Madison Utilities provide opinion on whether wanted to participate in project?

9:29:44 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Executed contract between county and Madison Utilities for fiber optic plan?

9:30:01 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Why not?

9:30:24 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Has equipment necessary purchased from Craley?

9:30:42 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H In 2021-00218 rate case copy of memorandum of understanding, familiar with document?

9:31:04 AM Chairman Chandler  
Note: Sacre, Candace H Copy of agreement? (Click on link for further comments.)

9:31:21 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Know who drafted that?

9:31:34 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Emergency Management Agency intended be party to memorandum of understanding?

9:32:12 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Provide input or involved in negotiations memorandum of understanding?

9:32:23 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Anyone with fiscal court or county involved negotiating that?

9:32:53 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Discuss with Chris or Dustin possibility of compensating Madison Utilities or Kirksville use of water pipes for fiber optics?

9:33:27 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H What mean by opportunities?

9:34:04 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Revenue, direct payments from county to Madison Utilities or Kirksville or from third party seeking to expand broadband?

9:35:33 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Recognize document just handed you?

9:35:56 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Who is Colleen Chaney?

9:36:10 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Look at third bullet point, broadband deployment to rural Madison County, under Judge Chaney expanding broadband part of expectations of project?

9:37:17 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Discuss possibility leak-sensing technology with Madison Utilities or Kirksville as part of Craley solution?

9:38:19 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Tentative agreement with Madison Utilities, provision for who pay for leak-sensing technology?

9:38:43 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Understanding between county and Madison Utilities be reimbursement for certain items?

9:38:56 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Use of Madison Utilities employees?

9:39:12 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Be intent for county pay costs related to service, interruption notices, boil advisories if such exist?

9:39:35 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Include cost of related water loss and water used for flushing or chlorine used for flushing afterwards?

9:39:48 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Include costs incurred by Madison Utilities to obtain or amend easements?

9:40:58 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Discussed with county or Madison Utilities any costs associated more rapid degradation of pipes due to Craley technology?

9:41:25 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H If engineer tell you pipes degrade faster, intent county reimburse Madison Utilities for that?

9:42:34 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Intend for county to pay for cost to contact 8-1-1 regarding any excavations and marking of water lines and fiber lines?

9:43:05 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Marking be part involve county or utility employee to take action?

9:43:40 AM Chairman Chandler - witness Taylor  
Note: Sacre, Candace H Examination. Fiber goes through current water lines and occasionally come out of water lines around valves and back in, defined as two underground facilities and obligation of water district to mark fiber by prospective excavator, fiber and water marked separately?

9:46:49 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Cross Examination (cont'd). Discussed 8-1-1 duties with anyone in county or Madison Utilities or Kirksville?

9:47:47 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Asked if fiber optics project provide benefit to water service utilities provide to customers and/or rates ratepayers pay?

9:48:51 AM Staff Atty Colyer PSC - witness Taylor  
Note: Sacre, Candace H Under agreement with Madison Utilities, who own fiber optic lines?

9:49:27 AM Chairman Chandler  
Note: Sacre, Candace H Questions?

9:49:33 AM	Commissioner Regan - witness Taylor Note: Sacre, Candace H	Examination. Reason not look at expanding broadband to people in community?
9:50:13 AM	Chairman Chandler - witness Taylor Note: Sacre, Candace H	Examination. Cost of project as proposed covered through federal grant but coming through EMA?
9:51:12 AM	Chairman Chandler - witness Taylor Note: Sacre, Candace H	Grants at Commission, covering 80 or 70 percent of costs, this program hundred percent covered?
9:51:57 AM	Chairman Chandler - witness Taylor Note: Sacre, Candace H	Appreciate concern with overhead, attaching to poles, start talking about trenching/boring not chose cost, why primary consideration when cost covered by feds?
9:53:34 AM	Chairman Chandler - witness Taylor Note: Sacre, Candace H	As proposed, evidence indicate that, not apples to apples, fiber be there by itself?
9:54:07 AM	Chairman Chandler - witness Taylor Note: Sacre, Candace H	With directional boring, same thing, assuming all other items in ground marked, same thing with directional boring be by itself, the conduit?
9:54:27 AM	Chairman Chandler - witness Taylor Note: Sacre, Candace H	Here, going to be changed, materially fair characterization, be separate from everything else and have own area?
9:57:24 AM	Chairman Chandler - witness Taylor Note: Sacre, Candace H	Conference call held before or after approached utilities about doing this?
9:57:43 AM	Chairman Chandler - witness Taylor Note: Sacre, Candace H	Utilities folks involved in conversations?
9:58:07 AM	Chairman Chandler - witness Taylor Note: Sacre, Candace H	From perspective of helped you get comfortable utility district folks on same call?
9:58:26 AM	Chairman Chandler - witness Taylor Note: Sacre, Candace H	Utility districts agreed forego compensation, response says future contracts include compensation for MCUD and Kirksville for providing lines, time line here, draft memorandum of understanding?
9:59:16 AM	Chairman Chandler - witness Taylor Note: Sacre, Candace H	Imply not have current contract, when talks future contracts this contract or contracts in future, assuming contract this project signed and does not include compensation, contract entered here a future contract, include compensation for this or assuming after this one happens?
10:00:38 AM	Chairman Chandler - witness Taylor Note: Sacre, Candace H	Here, in this instance, for this project?
10:01:06 AM	Chairman Chandler - witness Taylor Note: Sacre, Candace H	Reason ask, perspective on public service commission, (click on link for further comments), just start asking questions at right time, or still work to be done before finalizing project prior to Commission asking questions in rate case?
10:08:35 AM	Chairman Chandler - witness Taylor Note: Sacre, Candace H	Find Commission Staff questions on project and impact to water service legitimate, degradation to service, easements, 8-1-1 question, issues should be or can be addressed?
10:09:31 AM	Chairman Chandler - witness Taylor Note: Sacre, Candace H	Surprised not come up in conversations with utilities district?
10:10:36 AM	Chairman Chandler - witness Taylor Note: Sacre, Candace H	Heard term dark fiber?
10:10:54 AM	Chairman Chandler - witness Taylor	

Note: Sacre, Candace H Fiber been deployed but not being used, not communicating, know this proposal plan include enough fiber for future purposes or this explicit purpose?

10:11:46 AM Chairman Chandler - witness Taylor  
Note: Sacre, Candace H Not be used for anything other than communications?

10:11:55 AM Chairman Chandler - witness Taylor  
Note: Sacre, Candace H Water district opportunity use fiber for any reason at all?

10:12:12 AM Chairman Chandler - witness Taylor  
Note: Sacre, Candace H Will water district be able to use this fiber for any reason at all?

10:13:13 AM Chairman Chandler - witness Taylor  
Note: Sacre, Candace H Not just leak detection, meter reading expense significant expense for utilities, when Kirksville and Madison Utilities new meters, use of fiber running through own pipes not possibility, what your understanding?

10:15:22 AM Chairman Chandler - witness Taylor  
Note: Sacre, Candace H Who is person who would know?

10:15:46 AM Chairman Chandler - witness Taylor  
Note: Sacre, Candace H If these were your lines, let somebody do this, let somebody else run communication system through pipes you own?

10:17:01 AM Chairman Chandler  
Note: Sacre, Candace H Redirect?

10:17:06 AM Atty Patterson Madison Utilities/Kirksville Water - witness Taylor  
Note: Sacre, Candace H Redirect Examination. See relationship with PSC as one of collaboration?

10:17:19 AM Atty Patterson Madison Utilities/Kirksville Water - witness Taylor  
Note: Sacre, Candace H From beginning from both utilities, understand get approvals come talk to us, we're good?

10:17:32 AM Atty Patterson Madison Utilities/Kirksville Water - witness Taylor  
Note: Sacre, Candace H Think meeting with Division of Water deputy reached out and invited somebody from Commission?

10:17:44 AM Atty Patterson Madison Utilities/Kirksville Water - witness Taylor  
Note: Sacre, Candace H From very beginning thought in collaborative relationship with PSC and moving forward, fair to say?

10:17:52 AM Atty Patterson Madison Utilities/Kirksville Water - witness Taylor  
Note: Sacre, Candace H Came as surprise when received first requests for data they felt excluded in this process?

10:18:03 AM Chairman Chandler  
Note: Sacre, Candace H Want to be clear, don't feel anything. (Click on link for further comments.)

10:18:20 AM Atty Patterson Madison Utilities/Kirksville Water - witness Taylor  
Note: Sacre, Candace H Also understanding from utilities direction received from them, couple of things, not affect water quality or pressure open to it, no cost to water districts, county cover all costs?

10:18:52 AM Atty Patterson Madison Utilities/Kirksville Water - witness Taylor  
Note: Sacre, Candace H County utility district have no liability for use of fiber optic cable, indemnify water companies for use of pipe, no ongoing liability to water company?

10:19:20 AM Atty Patterson Madison Utilities/Kirksville Water - witness Taylor  
Note: Sacre, Candace H Memorandum of understanding designed to do those things?

10:19:35 AM Atty Patterson Madison Utilities/Kirksville Water - witness Taylor  
Note: Sacre, Candace H Willing to stipulate this is just about upgrade for fiber optic and communication system for CSEPP?

10:19:49 AM Atty Patterson Madison Utilities/Kirksville Water - witness Taylor  
Note: Sacre, Candace H Willing come back if ever expansion of project?

10:20:11 AM Atty Patterson Madison Utilities/Kirksville Water - witness Taylor  
Note: Sacre, Candace H If any kind of expansion to involve PSC, start process fresh, but stipulate as of today what trying to do now just for emergency preparedness program?

10:20:18 AM	Atty Patterson Madison Utilities/Kirksville Water - witness Taylor Note: Sacre, Candace H	Having stipulated that, language in memorandum more related if project ever expanded into rural broadband and private providers providing service through water line, water companies benefit from revenue county collect?
10:21:06 AM	Atty Patterson Madison Utilities/Kirksville Water - witness Taylor Note: Sacre, Candace H	All discussions ancillary to main subject which is CSEPP program?
10:21:13 AM	Atty Patterson Madison Utilities/Kirksville Water - witness Taylor Note: Sacre, Candace H	Conversations held just to plan and have some idea what future look like pending approval and input from other regulatory agencies?
10:21:38 AM	Atty Patterson Madison Utilities/Kirksville Water - witness Taylor Note: Sacre, Candace H	Every utility customer also at risk from Army Depot?
10:21:48 AM	Atty Patterson Madison Utilities/Kirksville Water - witness Taylor Note: Sacre, Candace H	Shelter in place plan for everybody in Madison County?
10:22:16 AM	Atty Patterson Madison Utilities/Kirksville Water - witness Taylor Note: Sacre, Candace H	If fiber optic cable in water line provides better service, water customers benefit?
10:22:26 AM	Atty Patterson Madison Utilities/Kirksville Water Note: Sacre, Candace H	All I have.
10:22:33 AM	Chairman Chandler Note: Sacre, Candace H	May step down.
10:22:56 AM	Chairman Chandler Note: Sacre, Candace H	Recess until 10:40.
10:23:32 AM	Session Paused	
10:42:31 AM	Session Resumed	
10:42:43 AM	Chairman Chandler Note: Sacre, Candace H	Back on the record in Case No. 2021-00422.
10:42:54 AM	Chairman Chandler Note: Sacre, Candace H	Additional witness?
10:42:56 AM	Atty Patterson Madison Utilities/Kirksville Water Note: Sacre, Candace H	Dustin Heiser.
10:43:07 AM	Chairman Chandler Note: Sacre, Candace H	Witness is sworn.
10:43:18 AM	Chairman Chandler - witness Heiser Note: Sacre, Candace H	Examination. Name and address?
10:43:29 AM	Atty Patterson Madison Utilities/Kirksville Water - witness Heiser Note: Sacre, Candace H	Direct Examination. Position with Madison County Government?
10:43:41 AM	Atty Patterson Madison Utilities/Kirksville Water - witness Heiser Note: Sacre, Candace H	That's what CSEPP stands for?
10:43:44 AM	Atty Patterson Madison Utilities/Kirksville Water - witness Heiser Note: Sacre, Candace H	Explain marriage between Madison County and the federal government as relates to CSEPP program and Bluegrass Army Depot?
10:44:51 AM	Atty Patterson Madison Utilities/Kirksville Water - witness Heiser Note: Sacre, Candace H	What chief worry about your position and what do for Madison County?
10:45:53 AM	Atty Patterson Madison Utilities/Kirksville Water - witness Heiser Note: Sacre, Candace H	Any other place similarly situated as relates to emergency management?
10:46:11 AM	Atty Patterson Madison Utilities/Kirksville Water - witness Heiser Note: Sacre, Candace H	Beginning of upgraded fiber optic project, mandate, instructions or problem needed to overcome as director?
10:51:33 AM	Chairman Chandler - witness Heiser Note: Sacre, Candace H	Examination. Mandate replace current radio system?
10:51:53 AM	Chairman Chandler - witness Heiser Note: Sacre, Candace H	Have to have compliant communications network?
10:51:59 AM	Chairman Chandler - witness Heiser	

10:53:04 AM Note: Sacre, Candace H Chairman Chandler - witness Heiser What is interaction between actual fiber and radio system?

10:53:11 AM Note: Sacre, Candace H Chairman Chandler - witness Heiser In lieu of or in addition to line of sight microwave system?

10:53:52 AM Note: Sacre, Candace H Chairman Chandler - witness Heiser Replacement of line of sight microwave system?

10:54:42 AM Note: Sacre, Candace H Chairman Chandler - witness Heiser Understanding is Kirksville and Madison Utilities District 45,000 linear feet of run?

10:54:45 AM Note: Sacre, Candace H Chairman Chandler - witness Heiser Richmond has own water system?

10:54:50 AM Note: Sacre, Candace H Chairman Chandler - witness Heiser Using any of Richmond system?

10:55:16 AM Note: Sacre, Candace H Chairman Chandler - witness Heiser These two runs, approached Richmond about using their water system?

10:56:17 AM Note: Sacre, Candace H Chairman Chandler - witness Heiser Forget using Craley system, two runs proposed, nine or ten mile runs, not gives everything need for Madison County, how much fiber intending long term satisfy mandate running in Madison County?

10:56:53 AM Note: Sacre, Candace H Chairman Chandler - witness Heiser Tip of iceberg or entirety of in-ground communications system intend to operate?

10:57:42 AM Note: Sacre, Candace H Chairman Chandler - witness Heiser For dedicated emergency communications network, purpose of run to south would be?

10:59:13 AM Note: Sacre, Candace H Chairman Chandler - witness Heiser Your EOC or Frankfort EOC?

10:59:18 AM Note: Sacre, Candace H Chairman Chandler - witness Heiser How many towers today have fiber connected to them?

10:59:24 AM Note: Sacre, Candace H Chairman Chandler - witness Heiser How many would after these two runs?

11:00:01 AM Note: Sacre, Candace H Atty Patterson Madison Utilities/Kirksville Water - witness Heiser Not using Craley method, other than those have to use Craley method, how many intend run fiber through different methods?

11:02:12 AM Note: Sacre, Candace H Atty Patterson Madison Utilities/Kirksville Water - witness Heiser Redirect Examination (cont'd). Take him through options, pole, in-ground, Craley method, decision points led you to recommend go with Craley method?

11:02:15 AM Note: Sacre, Candace H Atty Patterson Madison Utilities/Kirksville Water - witness Heiser For Craley method?

11:02:53 AM Note: Sacre, Candace H Atty Patterson Madison Utilities/Kirksville Water - witness Heiser And directional boring be what?

11:04:04 AM Note: Sacre, Candace H Atty Patterson Madison Utilities/Kirksville Water - witness Heiser What are downsides going through air on poles?

11:04:45 AM Note: Sacre, Candace H Atty Patterson Madison Utilities/Kirksville Water - witness Heiser CSEPP program not infinite, limit to funding, what looks like post-CSEPP?

11:05:25 AM Note: Sacre, Candace H Atty Patterson Madison Utilities/Kirksville Water - witness Heiser Downside to leasing pole space after CSEPP expires?

11:05:38 AM Note: Sacre, Candace H Atty Patterson Madison Utilities/Kirksville Water - witness Heiser Craley method as far as ownership of fiber optics in water line, once cost paid it's done, it's yours?

11:06:48 AM Note: Sacre, Candace H Atty Patterson Madison Utilities/Kirksville Water - witness Heiser Ongoing expense over air not exist in the line in addition to installation cost?

Note: Sacre, Candace H Atty Patterson Madison Utilities/Kirksville Water - witness Heiser Talk about involvement with Craley and study did, not hydraulics

review done until asked for one, specific to Madison County by Craley?

11:07:12 AM Atty Patterson Madison Utilities/Kirksville Water - witness Heiser  
Note: Sacre, Candace H Judge Taylor greenlighted study, talk about what entailed, how detailed that was?

11:08:43 AM Atty Patterson Madison Utilities/Kirksville Water - witness Heiser  
Note: Sacre, Candace H When had hydraulics review done with Craley, working with Division of Water?

11:08:52 AM Atty Patterson Madison Utilities/Kirksville Water - witness Heiser  
Note: Sacre, Candace H Share hydraulics review with Division of Water?

11:08:58 AM Atty Patterson Madison Utilities/Kirksville Water - witness Heiser  
Note: Sacre, Candace H Concern expressed by Division of Water?

11:09:35 AM Atty Patterson Madison Utilities/Kirksville Water - witness Heiser  
Note: Sacre, Candace H Reach out to anybody, speak with anybody at Anacortes or Buckenmeyer about experience with Craley and how project worked?

11:09:51 AM Atty Patterson Madison Utilities/Kirksville Water - witness Heiser  
Note: Sacre, Candace H More reason than just cost to select method, what reasons besides cost do it this way?

11:11:22 AM Atty Patterson Madison Utilities/Kirksville Water - witness Heiser  
Note: Sacre, Candace H Go through what can be used for once in place, what can and cannot do related to fiber optic line?

11:14:19 AM Atty Patterson Madison Utilities/Kirksville Water - witness Heiser  
Note: Sacre, Candace H If utilities districts wanted to purchase technology necessary for sensing technology and leak detection, no revenue generated, your opinion used for that purpose?

11:15:00 AM Atty Patterson Madison Utilities/Kirksville Water - witness Heiser  
Note: Sacre, Candace H Scope of what presenting, just about upgrading communication system for CSEPP program?

11:15:51 AM Atty Patterson Madison Utilities/Kirksville Water - witness Heiser  
Note: Sacre, Candace H In position of director, emergency management, after review of options, your opinion in best interest all Madison County that Craley method implemented?

11:16:18 AM Atty Patterson Madison Utilities/Kirksville Water - witness Heiser  
Note: Sacre, Candace H Your recommendation to Judge Taylor?

11:16:36 AM Atty Patterson Madison Utilities/Kirksville Water  
Note: Sacre, Candace H Nothing further.

11:16:43 AM Staff Atty Colyer PSC - witness Heiser  
Note: Sacre, Candace H Cross Examination. Mentioned section of CFR, tell me what section that is?

11:17:04 AM Staff Atty Colyer PSC - witness Heiser  
Note: Sacre, Candace H What that section mandate you do?

11:17:30 AM Staff Atty Colyer PSC - witness Heiser  
Note: Sacre, Candace H Received something like that on this?

11:17:40 AM Staff Atty Colyer PSC - witness Heiser  
Note: Sacre, Candace H Explain what feel is mandated?

11:18:31 AM Staff Atty Colyer PSC - witness Heiser  
Note: Sacre, Candace H Said are not permitted be reimbursed for lease payments pole attachments?

11:18:56 AM Staff Atty Colyer PSC - witness Heiser  
Note: Sacre, Candace H Here when asked Judge Taylor about reimbursement for several items for employees on site when installation done, paid for by federal funding?

11:19:34 AM Staff Atty Colyer PSC - witness Heiser  
Note: Sacre, Candace H Permitted cover reimbursements utilities service interruption notices?

11:19:44 AM Staff Atty Colyer PSC - witness Heiser

11:19:50 AM Note: Sacre, Candace H Easement costs, attorney fees?  
Staff Atty Colyer PSC - witness Heiser

11:20:03 AM Note: Sacre, Candace H Water loss or water use for flushing?  
Staff Atty Colyer PSC - witness Heiser

11:20:32 AM Note: Sacre, Candace H Where obtain figures for trenching or directional boring?  
Staff Atty Colyer PSC - witness Heiser

11:20:54 AM Note: Sacre, Candace H Who contractor or contractors?  
Staff Atty Colyer PSC - witness Heiser

11:22:01 AM Note: Sacre, Candace H Why was Jolly Ridge chosen as area to extend cable to?  
Staff Atty Colyer PSC - witness Heiser

11:22:12 AM Note: Sacre, Candace H Both have towers present currently?  
Staff Atty Colyer PSC - witness Heiser

11:22:19 AM Note: Sacre, Candace H Craley made aware of terrain in Jolly Ridge area?  
Staff Atty Colyer PSC - witness Heiser

11:22:22 AM Note: Sacre, Candace H Are you familiar with terrain?  
Staff Atty Colyer PSC - witness Heiser

11:22:41 AM Note: Sacre, Candace H Craley indicate problems being able navigate terrain?  
Staff Atty Colyer PSC - witness Heiser

11:24:00 AM Note: Sacre, Candace H Say believe fiber optic system replaced radio system be cost savings in that?  
Staff Atty Colyer PSC - witness Heiser

11:24:19 AM Note: Sacre, Candace H Depend on what federal government mandates as far as emergency system?  
Staff Atty Colyer PSC - witness Heiser

11:25:22 AM Note: Sacre, Candace H What is current operations/maintenance expense for microwave system?  
Staff Atty Colyer PSC - witness Heiser

11:25:36 AM Note: Sacre, Candace H Estimated operations/maintenance expense for planned fiber installation?  
Staff Atty Colyer PSC - witness Heiser

11:27:04 AM Note: Sacre, Candace H Operation and maintenance expense connected to fiber system, spend money inspect, spend money repair?  
Staff Atty Colyer PSC - witness Heiser

11:29:28 AM Note: Sacre, Candace H What benefits using fiber over microwave other than cost?  
Staff Atty Colyer PSC - witness Heiser

11:30:08 AM Note: Sacre, Candace H What longest period of time microwave towers out of commission?  
Staff Atty Colyer PSC - witness Heiser

11:31:08 AM Note: Sacre, Candace H Towers Jolly Ridge and Lexington Road, out at same time?  
Staff Atty Colyer PSC - witness Heiser

11:32:18 AM Note: Sacre, Candace H Data request responses indicating Kentucky American Water Scott County interested in Craley as well, know if still viable option?  
Chairman Chandler - witness Heiser

11:32:39 AM Note: Sacre, Candace H Examination. Outside borders of Madison County really care how fiber run?  
Chairman Chandler - witness Heiser

11:33:02 AM Note: Sacre, Candace H On hook for other people's costs?  
Chairman Chandler - witness Heiser

11:33:34 AM Note: Sacre, Candace H If entire BRRN done through assumption directionally bored and call if \$55-\$60, concern entirety of project not be built?  
Chairman Chandler - witness Heiser

11:33:39 AM Note: Sacre, Candace H Unless other funding?  
Chairman Chandler - witness Heiser

11:34:04 AM Note: Sacre, Candace H Why proponent of system in other areas?  
Staff Atty Colyer PSC - witness Heiser

11:35:16 AM Note: Sacre, Candace H Cross Examination (cont'd). Any of that prevent use of regional communications network?  
Staff Atty Colyer PSC - witness Heiser

11:36:16 AM Note: Sacre, Candace H Fayette County not have broadband capabilities connect to system?  
Staff Atty Colyer PSC - witness Heiser

Note: Sacre, Candace H Understand better, numerous purposes for regional public safety system, communications take place over system links Fayette to Madison to Scott?

11:41:08 AM Staff Atty Colyer PSC - witness Heiser

Note: Sacre, Candace H Depot, when start destroying nerve agent currently working on?

11:41:31 AM Staff Atty Colyer PSC - witness Heiser

Note: Sacre, Candace H Anticipate still working on that when fiber project completed?

11:41:42 AM Staff Atty Colyer PSC - witness Heiser

Note: Sacre, Candace H Involved at all in contract negotiations with Craley?

11:42:05 AM Staff Atty Colyer PSC - witness Heiser

Note: Sacre, Candace H At that point, had conversations with Madison Utilities and Kirksville Water?

11:42:20 AM Staff Atty Colyer PSC - witness Heiser

Note: Sacre, Candace H What discuss before?

11:43:50 AM Staff Atty Colyer PSC - witness Heiser

Note: Sacre, Candace H Document handed to you study referring to when refer to Craley study?

11:44:00 AM Staff Atty Colyer PSC - witness Heiser

Note: Sacre, Candace H Hydraulic analysis, information in that study?

11:44:12 AM Staff Atty Colyer PSC - witness Heiser

Note: Sacre, Candace H Page 61, information on right side hydraulic information testifying about?

11:45:04 AM Staff Atty Colyer PSC - witness Heiser

Note: Sacre, Candace H All contained in that study?

11:45:09 AM Staff Atty Colyer PSC - witness Heiser

Note: Sacre, Candace H Talk to Craley at all useful life of fiber cable will be?

11:45:23 AM Staff Atty Colyer PSC - witness Heiser

Note: Sacre, Candace H Difference discussed useful life of fiber inside water line than trench?

11:46:17 AM Staff Atty Colyer PSC - witness Heiser

Note: Sacre, Candace H Remember what Craley said useful life would be?

11:46:29 AM Staff Atty Colyer - witness Heiser

Note: Sacre, Candace H All I have.

11:46:34 AM Chairman Chandler

Note: Sacre, Candace H Redirect?

11:46:42 AM Chairman Chandler

Note: Sacre, Candace H Procedural discussions. (Click on link for further comments.)

11:51:08 AM Chairman Chandler

Note: Sacre, Candace H Recess until 1:00.

11:51:45 AM Session Paused

1:05:45 PM Session Resumed

1:05:53 PM Chairman Chandler

Note: Sacre, Candace H Back on the record in Case No. 2021-00422.

1:06:00 PM Chairman Chandler

Note: Sacre, Candace H Additional witness?

1:06:04 PM Atty Patterson Madison Utilities/Kirksville Water

Note: Sacre, Candace H Chris Iseral.

1:06:16 PM Chairman Chandler

Note: Sacre, Candace H Witness is sworn.

1:06:24 PM Chairman Chandler - witness Iseral

Note: Sacre, Candace H Examination. Name and address?

1:06:33 PM Atty Patterson Madison Utilities/Kirksville Water - witness Iseral

Note: Sacre, Candace H Direct Examination. Define your position with Madison County government?

1:06:56 PM Atty Patterson Madison Utilities/Kirksville Water - witness Iseral

Note: Sacre, Candace H Here for testimony, give Commission a feel for IT infrastructure and your role in this program, your decision points as you moved toward Craley?

1:10:30 PM Atty Patterson Madison Utilities/Kirksville Water - witness Iseral  
Note: Sacre, Candace H Spearheading meetings with utility districts and other parties?

1:10:54 PM Atty Patterson Madison Utilities/Kirksville Water - witness Iseral  
Note: Sacre, Candace H What advantages besides cost IT system to have in protected environment?

1:11:29 PM Atty Patterson Madison Utilities/Kirksville Water - witness Iseral  
Note: Sacre, Candace H Any advantage other than cost to fiber in water line as opposed to boring?

1:12:26 PM Atty Patterson Madison Utilities/Kirksville Water - witness Iseral  
Note: Sacre, Candace H Lot of discussion Regional Radio Network, familiar with network, differentiate that network and what this project is, how different, interplay?

1:14:15 PM Atty Patterson Madison Utilities/Kirksville Water - witness Iseral  
Note: Sacre, Candace H Radio network exists now?

1:14:34 PM Atty Patterson Madison Utilities/Kirksville Water - witness Iseral  
Note: Sacre, Candace H Will happen regardless of Craley method or whichever method?

1:15:00 PM Chairman Chandler  
Note: Sacre, Candace H Questions?

1:15:06 PM Staff Atty Colyer PSC - witness Iseral  
Note: Sacre, Candace H Cross Examination. Tell me what communication vault is in Craley system?

1:15:26 PM Staff Atty Colyer PSC - witness Iseral  
Note: Sacre, Candace H One hole in pipeline?

1:15:37 PM Staff Atty Colyer PSC - witness Iseral  
Note: Sacre, Candace H Contractors hired perform this work ever done this work before?

1:16:13 PM Staff Atty Colyer PSC - witness Iseral  
Note: Sacre, Candace H Correct are planned 75 vaults Madison Utilities line and 54 for Kirksville?

1:16:24 PM Staff Atty Colyer PSC - witness Iseral  
Note: Sacre, Candace H How possible for work to be done in 14 days?

1:16:51 PM Staff Atty Colyer PSC - witness Iseral  
Note: Sacre, Candace H How many service interruptions do you expect?

1:17:11 PM Staff Atty Colyer PSC - witness Iseral  
Note: Sacre, Candace H Expect service interruption for every run of pipe system is installed on?

1:17:28 PM Staff Atty Colyer PSC - witness Iseral  
Note: Sacre, Candace H Know how long service interruption be necessary?

1:17:47 PM Staff Atty Colyer PSC - witness Iseral  
Note: Sacre, Candace H Get 14-day figure from Craley?

1:17:59 PM Staff Atty Colyer PSC - witness Iseral  
Note: Sacre, Candace H Phase 3 of construction that deputy judge-executive referred to regarding broadband deployment, judge-executive said broadband nothing to do with this, is he right or is deputy judge right?

1:18:54 PM Staff Atty Colyer PSC - witness Iseral  
Note: Sacre, Candace H Chairman asked Heiser if using fiber for meter reading a possibility, is that a possibility?

1:19:28 PM Chairman Chandler - witness Heiser  
Note: Sacre, Candace H Examination. You say ask, ask who?

1:20:08 PM Staff Atty Colyer PSC - witness Iseral  
Note: Sacre, Candace H Cross Examination (cont'd). What is agreement as far as who owns fiber optic?

1:20:20 PM Staff Atty Colyer PSC - witness Iseral  
Note: Sacre, Candace H Mentioned permitting process being facilitated or truncated, explain what meant?

1:20:53 PM Staff Atty Colyer PSC - witness Iseral  
Note: Sacre, Candace H Talk to anyone from Madison Utilities or Kirksville about fiber optic plan?

1:21:01 PM Staff Atty Colyer PSC - witness Iseral  
Note: Sacre, Candace H Who talk to?

1:21:17 PM Staff Atty Colyer PSC - witness Iseral  
Note: Sacre, Candace H Know when first meeting took place?

1:21:29 PM Staff Atty Colyer PSC - witness Iseral  
Note: Sacre, Candace H Explain for county if be water line break with assessment of cable?

1:23:06 PM Staff Atty Colyer PSC - witness Iseral  
Note: Sacre, Candace H Expect Craley have involvement with repair or maintenance as result of water line break?

1:23:27 PM Staff Atty Colyer PSC - witness Iseral  
Note: Sacre, Candace H Anticipate delay in repairs as result of county's involvement?

1:23:47 PM Staff Atty Colyer PSC - witness Iseral  
Note: Sacre, Candace H Talked about possibility using fiber for leak detection and meter reading, any other benefits other than whole county will get?

1:24:49 PM Staff Atty Colyer PSC - witness Iseral  
Note: Sacre, Candace H In MOU \$20 an employee and \$22.64 truck fee, where numbers come from?

1:25:12 PM Staff Atty Colyer PSC - witness Iseral  
Note: Sacre, Candace H Intended to be reimbursement or punishment?

1:25:21 PM Staff Atty Colyer PSC  
Note: Sacre, Candace H Nothing else.

1:25:22 PM Chairman Chandler  
Note: Sacre, Candace H Commissioner Regan?

1:25:24 PM Commissioner Regan - witness Iseral  
Note: Sacre, Candace H Examination. Any concerns about contaminants in water doing broadband through water pipes?

1:26:10 PM Chairman Chandler - witness Iseral  
Note: Sacre, Candace H Examination. Know how long fiber last, expected useful life?

1:27:03 PM Chairman Chandler - witness Iseral  
Note: Sacre, Candace H HDPE acts as messenger pipe, malleable or hard like PVC pipe is in ground?

1:27:31 PM Chairman Chandler - witness Iseral  
Note: Sacre, Candace H How goes up, out, over, and back in?

1:27:52 PM Commissioner Regan - witness Iseral  
Note: Sacre, Candace H Examination. Is that why build box next to valve, or just for splicing?

1:28:15 PM Chairman Chandler - witness Iseral  
Note: Sacre, Candace H Examination. Water lines plastic, wire connected to plastic, tap used under Craley method interact with wiring?

1:28:59 PM Chairman Chandler - witness Iseral  
Note: Sacre, Candace H The vaults, how many vaults?

1:29:08 PM Chairman Chandler - witness Iseral  
Note: Sacre, Candace H Find a portion of line incompatible between two valves, run fiber between vaults, discussed possibility?

1:29:44 PM Chairman Chandler - witness Iseral  
Note: Sacre, Candace H If 90, try to run in the same right of way, beside it, or direct between two vaults?

1:30:04 PM Chairman Chandler - witness Iseral  
Note: Sacre, Candace H Co-locate similar trench or different trench?

1:30:21 PM Chairman Chandler - witness Iseral  
Note: Sacre, Candace H Running point to point, not necessarily interconnections at any of individual vaults?

1:30:52 PM Chairman Chandler - witness Iseral  
Note: Sacre, Candace H Make sure understand idea of use, two options, feds not want to

pay for something primarily used for purpose but also be concern information conveyed such want dedicated communication system or not carry other communications, former concern around alternative usage or concern with latter?

1:32:44 PM Chairman Chandler - witness Iseral  
Note: Sacre, Candace H Distinction, legal and operational, to county and water districts, return favor when owning favor in their pipes but when want to use going to be as accommodating as have been for you?

1:34:25 PM Chairman Chandler - witness Iseral  
Note: Sacre, Candace H Part of negotiations or contractor MOU discussions?

1:34:51 PM Chairman Chandler - witness Iseral  
Note: Sacre, Candace H Broadband different situation, private use instead of public, reason ask life of fiber whether discussions in regards to life of lines fiber being located, know vintage 40,000 feet pipe are running fiber through?

1:36:15 PM Chairman Chandler - witness Iseral  
Note: Sacre, Candace H Reason ask, if expecting cost analysis and determination present value cost/benefit expecting fiber last 20-30 years, lines replaced in 15 years, variable, looked into that, privy to any discussions?

1:37:14 PM Chairman Chandler - witness Iseral  
Note: Sacre, Candace H If want to ask how put back 200 holes, questions for Craley?

1:37:34 PM Chairman Chandler - witness Iseral  
Note: Sacre, Candace H Percentage of fiber expect to be dark, how much fiber anticipate running?

1:38:16 PM Chairman Chandler - witness Iseral  
Note: Sacre, Candace H Separately encased fiber, plastic or glass?

1:38:46 PM Chairman Chandler - witness Iseral  
Note: Sacre, Candace H Expect glass on all runs?

1:39:00 PM Chairman Chandler - witness Iseral  
Note: Sacre, Candace H Anticipate depreciating, when get and paid for, capital, not ongoing, separately depreciate them or just not depreciate them?

1:39:49 PM Chairman Chandler  
Note: Sacre, Candace H Redirect? (Click on link for further comments.)

1:40:04 PM Chairman Chandler  
Note: Sacre, Candace H Witness excused.

1:40:12 PM Atty Patterson Madison Utilities/Kirksville Water  
Note: Sacre, Candace H Mike Parker.

1:40:55 PM Chairman Chandler  
Note: Sacre, Candace H Witness is sworn.

1:41:03 PM Chairman Chandler - witness Parker  
Note: Sacre, Candace H Examination. Name and address?

1:41:27 PM Atty Patterson Madison Utilities/Kirksville Water - witness Parker  
Note: Sacre, Candace H Direct Examination. Tell Commission what do with Craley?

1:41:39 PM Atty Patterson Madison Utilities/Kirksville Water - witness Parker  
Note: Sacre, Candace H How long in position?

1:41:45 PM Atty Patterson Madison Utilities/Kirksville Water - witness Parker  
Note: Sacre, Candace H On the ground floor when product originally invented and used?

1:41:55 PM Atty Patterson Madison Utilities/Kirksville Water - witness Parker  
Note: Sacre, Candace H Take Commission through history of Craley, what does, and where in world deployed?

1:45:25 PM Atty Patterson Madison Utilities/Kirksville Water - witness Parker  
Note: Sacre, Candace H Give Commission idea how implementation works and how protect water quality and water flow?

1:49:45 PM Atty Patterson Madison Utilities/Kirksville Water - witness Parker  
Note: Sacre, Candace H Chairman asked, talk about messenger pipe and whether malleable, how come at at ends with messenger pipe?

1:56:32 PM Atty Patterson Madison Utilities/Kirksville Water - witness Parker

	Note: Sacre, Candace H	Talk about Madison County, investigated projects in which information provided to you that would not be appropriate project for Craley?
1:58:03 PM	Atty Patterson Madison Utilities/Kirkville Water - witness Parker	
	Note: Sacre, Candace H	What information require of Madison County determine your system appropriate for Madison County?
2:01:49 PM	Atty Patterson Madison Utilities/Kirkville Water - witness Parker	
	Note: Sacre, Candace H	Tell Commission what level of confidence have and information received from Madison County able to do analysis?
2:02:58 PM	Atty Patterson Madison Utilities/Kirkville Water - witness Parker	
	Note: Sacre, Candace H	Any question in your mind or concerns this would be an appropriate project for Madison County?
2:03:26 PM	Atty Patterson Madison Utilities/Kirkville Water - witness Parker	
	Note: Sacre, Candace H	Want to address experience in America, how long project in place?
2:04:03 PM	Atty Patterson Madison Utilities/Kirkville Water - witness Parker	
	Note: Sacre, Candace H	Any incidents when water quality, pressure, water flow, or leak repairs caused problems for Anacortes?
2:05:00 PM	Atty Patterson Madison Utilities/Kirkville Water - witness Parker	
	Note: Sacre, Candace H	Craley opinion as relates to implementation of this product, water always comes first?
2:07:02 PM	Atty Patterson Madison Utilities/Kirkville Water	
	Note: Sacre, Candace H	Nothing further.
2:07:07 PM	Chairman Chandler	
	Note: Sacre, Candace H	Questions?
2:07:12 PM	Staff Atty Tussey PSC - witness Parker	
	Note: Sacre, Candace H	Cross Examination. How determined choose depressurized method instead of live or semi-live methods for Madison County?
2:08:37 PM	Staff Atty Tussey PSC - witness Parker	
	Note: Sacre, Candace H	Madison County tendered Lexington Road full study and Kirkville full study, appears have had subsequent conversations with regard to messenger pipe within water line or outside around water line?
2:10:48 PM	Staff Atty Tussey PSC - witness Parker	
	Note: Sacre, Candace H	Reduction done before or after brought to your attention that pipe size was reported to you incorrectly?
2:12:07 PM	Staff Atty Tussey PSC - witness Parker	
	Note: Sacre, Candace H	When glancing through study, all observation and notes Lexington Road seemed to indicate messenger pipe go in water line, not notation of any section going to be exception, cannot find one that reads differently?
2:13:14 PM	Staff Atty Tussey PSC - witness Parker	
	Note: Sacre, Candace H	Post-hearing data request like updated information, any points changed as far as where messenger pipe going to go or impact at different lengths, like to have the information?
2:13:15 PM	POST-HEARING DATA REQUEST	
	Note: Sacre, Candace H	STAFF ATTY TUSSEY PSC - WITNESS PARKER
	Note: Sacre, Candace H	LOCATION AND SIZE OF MESSENGER PIPE
2:13:44 PM	Staff Atty Tussey PSC - witness Parker	
	Note: Sacre, Candace H	Another point of information about water flow from fire hydrants, additional information relayed, check on flow from particular hydrants asked about in data requests, recall?
2:13:45 PM	POST-HEARING DATA REQUEST	
	Note: Sacre, Candace H	STAFF ATTY TUSSEY PSC - WITNESS PARKER
	Note: Sacre, Candace H	WATER FLOW FROM FIRE HYRANTS
2:14:42 PM	Staff Atty Tussey PSC - witness Parker	
	Note: Sacre, Candace H	Four-inch pipe that runs very close to eight-inch PVC pipe, affect anything would do in installation process?
2:15:09 PM	Staff Atty Tussey PSC - witness Parker	
	Note: Sacre, Candace H	Mentioned nature of HDPE material, mentioned PVC pipe brittle,

boring holes in PVC pipe, not know age of pipe boring into?

2:16:18 PM Staff Atty Tussey PSC - witness Parker  
Note: Sacre, Candace H Saddles, know mentioned in report and do add weight to pipe?

2:17:28 PM Staff Atty Tussey PSC - witness Parker  
Note: Sacre, Candace H Were telling me about boring holes in pipe, apologize, if you want to finish?

2:18:31 PM Staff Atty Tussey PSC - witness Parker  
Note: Sacre, Candace H When were working on prototype and implementing this in Washington, study or kept track of issues arose during installation process?

2:19:33 PM Staff Atty Tussey PSC - witness Parker  
Note: Sacre, Candace H Ongoing statistics as to repairs or complaints post installation with any of your installs?

2:20:31 PM Staff Atty Tussey PSC - witness Parker  
Note: Sacre, Candace H Water loss and length of outages, prior testimony estimated one section could be finished within 14-day period?

2:21:18 PM Staff Atty Tussey PSC - witness Parker  
Note: Sacre, Candace H So like a normal eight-hour shift?

2:22:28 PM Staff Atty Tussey PSC - witness Parker  
Note: Sacre, Candace H According to report, utility have two flow shutdowns?

2:22:44 PM Staff Atty Tussey PSC - witness Parker  
Note: Sacre, Candace H Other engineering report mentions three?

2:23:51 PM Staff Atty Tussey PSC - witness Parker  
Note: Sacre, Candace H Mentioned utility and their discretion as to water flow, leave it up to them how much water lost during flushing?

2:24:57 PM Staff Atty Tussey PSC - witness Parker  
Note: Sacre, Candace H Agreements not specific as to normal or excessive water loss mean, what does excessive water loss mean to you?

2:26:58 PM Staff Atty Tussey PSC - witness Parker  
Note: Sacre, Candace H Based on other experiences, on average per day, how long customers without water?

2:28:59 PM Staff Atty Tussey PSC - witness Parker  
Note: Sacre, Candace H Discuss it with Madison Fiscal Court, Madison County Utilities District, and Kirksville Water or just person going to pay you?

2:29:45 PM Staff Atty Tussey PSC - witness Parker  
Note: Sacre, Candace H Based on timeline looking at, where see that, how many months out where do you see that from today?

2:31:05 PM Staff Atty Tussey PSC - witness Parker  
Note: Sacre, Candace H Engineering report provided by HMB, Brandon Baxter, had opportunity to look at that?

2:31:49 PM Staff Atty Tussey PSC - witness Parker  
Note: Sacre, Candace H Saying within limits not necessarily could have negative effect on pressure?

2:34:41 PM Chairman Chandler  
Note: Sacre, Candace H Questions? (Click on link for further comments.)

2:34:43 PM Chairman Chandler - witness Parker  
Note: Sacre, Candace H Examination. Have a couple of saddles, D series, M series, and T series?

2:37:34 PM Chairman Chandler - witness Parker  
Note: Sacre, Candace H Any of those being used here?

2:37:50 PM Chairman Chandler - witness Parker  
Note: Sacre, Candace H All these products used exclusively within vaults?

2:38:09 PM Chairman Chandler - witness Parker  
Note: Sacre, Candace H Expectation correct usage of vaults?

2:40:20 PM Chairman Chandler - witness Parker  
Note: Sacre, Candace H These taps occur within valve vault as a general matter?

2:41:27 PM Chairman Chandler - witness Parker

	Note: Sacre, Candace H	Makes sense urban areas, under road, not easy access to lines, different than areas place this, more urban areas access to pipe maybe not available?
2:44:25 PM	Chairman Chandler - witness Parker	
	Note: Sacre, Candace H	Heard ask question where taps have occurred, and if tap removed, what is fix to PVC, remove fiber and leave saddle?
2:46:01 PM	Chairman Chandler - witness Parker	
	Note: Sacre, Candace H	Latter effectively same fix if just had leak?
2:46:11 PM	Chairman Chandler - witness Parker	
	Note: Sacre, Candace H	Have leak, portion of PVC has to be replaced, if going to replace pipe, do you rerun the messenger pipe entire pipe or have to turn off water, call somebody out, fix messenger, fix pipes, how both fixes in conjunction with each other?
2:48:58 PM	Chairman Chandler	
	Note: Sacre, Candace H	Redirect?
2:49:02 PM	Chairman Chandler	
	Note: Sacre, Candace H	Witness excused.
2:49:36 PM	Chairman Chandler	
	Note: Sacre, Candace H	Take recess until 3.
2:49:49 PM	Session Paused	
3:05:09 PM	Session Resumed	
3:05:18 PM	Chairman Chandler	
	Note: Sacre, Candace H	Back on the record in Case No. 2021-00422.
3:05:26 PM	Chairman Chandler	
	Note: Sacre, Candace H	Additional witnesses?
3:05:28 PM	Atty Patterson Madison Utilities/Kirksville Water	
	Note: Sacre, Candace H	Brandon Baxter.
3:05:40 PM	Chairman Chandler	
	Note: Sacre, Candace H	Witness is sworn.
3:05:46 PM	Chairman Chandler - witness Baxter	
	Note: Sacre, Candace H	Examination. Name and address?
3:06:02 PM	Atty Patterson Madison Utilities/Kirksville Water - witness Baxter	
	Note: Sacre, Candace H	Direct Examination. Profession?
3:06:14 PM	Atty Patterson Madison Utilities/Kirksville Water - witness Baxter	
	Note: Sacre, Candace H	How long licensed?
3:06:21 PM	Atty Patterson Madison Utilities/Kirksville Water - witness Baxter	
	Note: Sacre, Candace H	How long worked for HMB?
3:06:29 PM	Atty Patterson Madison Utilities/Kirksville Water - witness Baxter	
	Note: Sacre, Candace H	All of your practice relates to water companies and water services?
3:06:37 PM	Atty Patterson Madison Utilities/Kirksville Water - witness Baxter	
	Note: Sacre, Candace H	Provide services to Madison County Utilities and Kirksville Water?
3:06:47 PM	Atty Patterson Madison Utilities/Kirksville Water - witness Baxter	
	Note: Sacre, Candace H	How long providing that service?
3:07:05 PM	Atty Patterson Madison Utilities/Kirksville Water - witness Baxter	
	Note: Sacre, Candace H	Your understanding Odell only engineer Kirksville Water and Madison County Utilities had before your involvement?
3:07:14 PM	Atty Patterson Madison Utilities/Kirksville Water - witness Baxter	
	Note: Sacre, Candace H	Spend time learning systems?
3:07:30 PM	Atty Patterson Madison Utilities/Kirksville Water - witness Baxter	
	Note: Sacre, Candace H	Attend monthly board meetings of both?
3:07:36 PM	Atty Patterson Madison Utilities/Kirksville Water - witness Baxter	
	Note: Sacre, Candace H	Like to get to analysis, aware of project before asked to do analysis?
3:08:02 PM	Atty Patterson Madison Utilities/Kirksville Water - witness Baxter	
	Note: Sacre, Candace H	When asked to engineer project, take me through steps you took, scope of project charged with?
3:08:49 PM	Atty Patterson Madison Utilities/Kirksville Water - witness Baxter	
	Note: Sacre, Candace H	Provided sufficient information to do calculations?

3:08:55 PM Atty Patterson Madison Utilities/Kirkville Water - witness Baxter  
Note: Sacre, Candace H Have high degree of confidence in information received to do calculations needed to make determination for Kirkville and Madison County Utilities?

3:09:04 PM Atty Patterson Madison Utilities/Kirkville Water - witness Baxter  
Note: Sacre, Candace H Tell Commission what conclusions were?

3:09:28 PM Atty Patterson Madison Utilities/Kirkville Water - witness Baxter  
Note: Sacre, Candace H Tell Commission about what information have on Madison County utility system and Kirkville water system apart from Craley provided?

3:10:08 PM Atty Patterson Madison Utilities/Kirkville Water - witness Baxter  
Note: Sacre, Candace H Basically have program tell entirety of Madison County utility system and Kirkville Water system as relates to pressures and flows?

3:10:52 PM Atty Patterson Madison Utilities/Kirkville Water - witness Baxter  
Note: Sacre, Candace H All information existed before project came up?

3:10:58 PM Atty Patterson Madison Utilities/Kirkville Water - witness Baxter  
Note: Sacre, Candace H Talking about conclusions as related to flows and pressures?

3:11:46 PM Atty Patterson Madison Utilities/Kirkville Water - witness Baxter  
Note: Sacre, Candace H Most basic terms, turn faucet on, notice any difference?

3:12:06 PM Atty Patterson Madison Utilities/Kirkville Water - witness Baxter  
Note: Sacre, Candace H Here during testimony, talk about difference in how present system implemented in connection to any other new water service, tapping of pipe?

3:13:22 PM Atty Patterson Madison Utilities/Kirkville Water - witness Baxter  
Note: Sacre, Candace H Review portions of Craley report, concerns about water quality as relates to implementation of process and ongoing presence in line?

3:14:16 PM Atty Patterson Madison Utilities/Kirkville Water - witness Baxter  
Note: Sacre, Candace H No issues as relates to quality of water with pipe in it ongoing?

3:14:37 PM Atty Patterson Madison Utilities/Kirkville Water - witness Baxter  
Note: Sacre, Candace H Pressures sufficient to keep from happening?

3:14:47 PM Chairman Chandler  
Note: Sacre, Candace H Questions?

3:14:49 PM Staff Atty Tussey PSC - witness Baxter  
Note: Sacre, Candace H Cross Examination. Have your report pulled up, do you have it?

3:15:03 PM Staff Atty Tussey PSC - witness Baxter  
Note: Sacre, Candace H First page at bottom, analysis, reading (click on link for further comments), based on your analysis, minimally adverse?

3:15:54 PM Staff Atty Tussey PSC - witness Baxter  
Note: Sacre, Candace H As Chairman mentioned, appears not asked do this report until PSC asked for it?

3:16:09 PM Staff Atty Tussey PSC - witness Baxter  
Note: Sacre, Candace H Based on testimony, appear paid by Madison Utilities and/or Kirkville Water?

3:16:34 PM Staff Atty Tussey PSC - witness Baxter  
Note: Sacre, Candace H Here as contractor of Madison Fiscal Court?

3:16:48 PM Staff Atty Tussey PSC - witness Baxter  
Note: Sacre, Candace H When provided report, providing to Fiscal Court for their purposes?

3:17:28 PM Staff Atty Tussey PSC - witness Baxter  
Note: Sacre, Candace H But paid by Madison County Fiscal Court?

3:17:37 PM Staff Atty Tussey PSC - witness Baxter  
Note: Sacre, Candace H When did analysis, did with presumption of bigger fiber?

3:17:47 PM Staff Atty Tussey PSC - witness Baxter  
Note: Sacre, Candace H Familiar with water systems, errors in pipe size, did you use correct pipe size in your analysis?

3:18:15 PM Staff Atty Tussey PSC - witness Baxter  
Note: Sacre, Candace H Believe yours were but wanted to doublecheck, appears corrected?

3:18:30 PM Staff Atty Tussey PSC - witness Baxter

3:18:48 PM Note: Sacre, Candace H Link 22 and 23?  
Staff Atty Tussey PSC - witness Baxter

3:18:57 PM Note: Sacre, Candace H Used information from Craley study?  
Staff Atty Tussey PSC - witness Baxter

3:19:37 PM Note: Sacre, Candace H But even using bigger fiber and pipe errors, pressure still in compliance with Division of Water?  
Staff Atty Tussey PSC - witness Baxter

3:19:44 PM Note: Sacre, Candace H Your equation is Darcy Wiseback equation?  
Staff Atty Tussey PSC - witness Baxter

3:20:02 PM Note: Sacre, Candace H Not see see mention of equation in Craley study, use different?  
Staff Atty Tussey PSC - witness Baxter

3:21:02 PM Note: Sacre, Candace H Why choose one over the other?  
Staff Atty Tussey PSC - witness Baxter

3:21:14 PM Note: Sacre, Candace H Although not one prefer because of uniqueness of this situation why chose use Darcy Wiseback?  
Staff Atty Tussey PSC - witness Baxter

3:21:34 PM Note: Sacre, Candace H Going to end up being three flow shutoffs?  
Staff Atty Tussey PSC - witness Baxter

3:22:21 PM Note: Sacre, Candace H Based on experience in water industry, what look like for normal customer?  
Staff Atty Tussey PSC - witness Baxter

3:22:33 PM Note: Sacre, Candace H Based on your knowledge, those talks not occurred?  
Staff Atty Tussey PSC - witness Baxter

3:23:24 PM Note: Sacre, Candace H Number of days ideally 14 days to get installation, probably more realistic what that looks like for two water systems, 14 days realistic number?  
Staff Atty Tussey PSC - witness Baxter

3:23:38 PM Note: Sacre, Candace H Possible customers affected more depending on what prework looks like?  
Staff Atty Tussey PSC - witness Baxter

3:23:49 PM Note: Sacre, Candace H Shouldn't?  
Chairman Chandler

3:23:56 PM Note: Sacre, Candace H Questions?  
Chairman Chandler - witness Baxter

3:24:27 PM Note: Sacre, Candace H Examination. Been approached by clients prior to being engaged by county to look at hydraulic study?  
Chairman Chandler - witness Baxter

3:24:45 PM Note: Sacre, Candace H Had any concerns?  
Chairman Chandler - witness Baxter

3:25:14 PM Note: Sacre, Candace H Talking about saddles, impact tracer wire?  
Chairman Chandler - witness Baxter

3:25:28 PM Note: Sacre, Candace H Know whether saddles stainless steel?  
Chairman Chandler - witness Baxter

3:25:53 PM Note: Sacre, Candace H Regardless, saddles used whatever metal ordinarily used also indicated when trying to identify underground facilities?  
Chairman Chandler - witness Baxter

3:26:02 PM Note: Sacre, Candace H Aware general size of vaults?  
Chairman Chandler - witness Baxter

3:26:18 PM Note: Sacre, Candace H How many wide enough have taps within valve vaults or how many outside valve vaults?  
Chairman Chandler - witness Baxter

3:26:33 PM Note: Sacre, Candace H All of them or majority of them?  
Chairman Chandler - witness Baxter

3:26:40 PM Note: Sacre, Candace H Know what age this system is?  
Chairman Chandler - witness Baxter

Note: Sacre, Candace H Know whether utilities have information to know what age systems are?

3:27:16 PM Chairman Chandler - witness Baxter  
Note: Sacre, Candace H Utilities have sufficient mapping of system?

3:27:22 PM Chairman Chandler - witness Baxter  
Note: Sacre, Candace H GIS and WRS system?

3:27:29 PM Chairman Chandler - witness Baxter  
Note: Sacre, Candace H Accurate location and size of piping?

3:27:49 PM Chairman Chandler - witness Baxter  
Note: Sacre, Candace H Still work for Kirksville and Madison County, been asked opinion on whether move forward with it?

3:28:23 PM Chairman Chandler - witness Baxter  
Note: Sacre, Candace H Curious what opinion was if asked to give it to them?

3:28:35 PM Chairman Chandler - witness Baxter  
Note: Sacre, Candace H Have concerns this goes through how impact your job and ability to provide service?

3:29:17 PM Chairman Chandler - witness Baxter  
Note: Sacre, Candace H 2021 Madison County had 21 percent water loss, not as significant as some see, pretty high, what's going on, why think water loss may be so high?

3:30:24 PM Chairman Chandler - witness Baxter  
Note: Sacre, Candace H Using specific equipment to do that, flow meters?

3:30:46 PM Chairman Chandler - witness Baxter  
Note: Sacre, Candace H When say valves, not talking about ordinary valves?

3:30:58 PM Chairman Chandler - witness Baxter  
Note: Sacre, Candace H Kirksville water loss in 2021 almost 23 percent?

3:31:05 PM Chairman Chandler - witness Baxter  
Note: Sacre, Candace H Asked to look at projects fix those water losses?

3:31:23 PM Chairman Chandler - witness Baxter  
Note: Sacre, Candace H Have any projects working on for either of utilities right now?

3:31:53 PM Chairman Chandler - witness Baxter  
Note: Sacre, Candace H Those be KIA, Rural Development, funding opportunity yet?

3:32:01 PM Chairman Chandler - witness Baxter  
Note: Sacre, Candace H Those ones have to run through county in ADD?

3:32:18 PM Chairman Chandler - witness Baxter  
Note: Sacre, Candace H Ones everybody got together and decided where money go?

3:32:27 PM Chairman Chandler  
Note: Sacre, Candace H Any redirect? (Click on link for further comments.)

3:32:49 PM Chairman Chandler  
Note: Sacre, Candace H Post-hearing data request, age and material used in each one of those.

3:33:19 PM POST-HEARING DATA REQUEST  
Note: Sacre, Candace H CHAIRMAN CHANDLER - WITNESS BAXTER  
Note: Sacre, Candace H AGE AND TYPE OF MATERIAL USED IN EACH LINE

3:33:44 PM Chairman Chandler  
Note: Sacre, Candace H Additional witness?

3:33:47 PM Atty Patterson Madison Utilities/Kirksville Water  
Note: Sacre, Candace H Fred Buckenmeyer, end with him or end with Mr. Carr.

3:34:17 PM Chairman Chandler  
Note: Sacre, Candace H Witness is sworn.

3:34:22 PM Chairman Chandler - witness Buckenmeyer  
Note: Sacre, Candace H Examination. Name and address?

3:34:32 PM Atty Patterson Madison Utilities/Kirksville Water - witness Buckenmeyer  
Note: Sacre, Candace H Direct Examination. Give Commission a bit about background?

3:34:56 PM Atty Patterson Madison Utilities/Kirksville Water - witness Buckenmeyer  
Note: Sacre, Candace H Entire career in this business?

3:35:03 PM Atty Patterson Madison Utilities/Kirksville Water - witness Buckenmeyer  
Note: Sacre, Candace H What problem trying to overcome, what led to Craley method, and experience with that process?

3:41:45 PM Atty Patterson Madison Utilities/Kirksville Water - witness Buckenmeyer  
Note: Sacre, Candace H In your experience not been any leaks or contamination or issues since put in?

3:42:22 PM Atty Patterson Madison Utilities/Kirksville Water - witness Buckenmeyer  
Note: Sacre, Candace H Information received in calculations and engineering work from Craley all checked out?

3:42:31 PM Atty Patterson Madison Utilities/Kirksville Water - witness Buckenmeyer  
Note: Sacre, Candace H Not have issues with information produced?

3:42:43 PM Atty Patterson Madison Utilities/Kirksville Water - witness Buckenmeyer  
Note: Sacre, Candace H State Department of Health focused on water quality?

3:43:01 PM Atty Patterson Madison Utilities/Kirksville Water - witness Buckenmeyer  
Note: Sacre, Candace H Have any hesitation, reservation at all recommending that Madison County move forward with project?

3:43:35 PM Atty Patterson Madison Utilities/Kirksville Water - witness Buckenmeyer  
Note: Sacre, Candace H Recognized in any way for implementing this?

3:43:44 PM Atty Patterson Madison Utilities/Kirksville Water - witness Buckenmeyer  
Note: Sacre, Candace H What kind of awards receive?

3:44:08 PM Atty Patterson Madison Utilities/Kirksville Water - witness Buckenmeyer  
Note: Sacre, Candace H Related to this project?

3:44:19 PM Staff Atty Tussey PSC - witness Buckenmeyer  
Note: Sacre, Candace H Cross Examination. Mentioned mayor's request provide broadband, active water line, run in abandoned lines as well?

3:45:09 PM Staff Atty Tussey PSC - witness Buckenmeyer  
Note: Sacre, Candace H Percentage of abandoned versus active, what would estimate used?

3:45:34 PM Staff Atty Tussey PSC - witness Buckenmeyer  
Note: Sacre, Candace H Regional water system, run and operate the water system in the city?

3:45:48 PM Staff Atty Tussey PSC - witness Buckenmeyer  
Note: Sacre, Candace H City also operate cable/fiber optics?

3:45:53 PM Staff Atty Tussey PSC - witness Buckenmeyer  
Note: Sacre, Candace H All billing and service through city as well?

3:46:18 PM Staff Atty Tussey PSC - witness Buckenmeyer  
Note: Sacre, Candace H Instead of saddle had welded?

3:46:24 PM Staff Atty Tussey PSC - witness Buckenmeyer  
Note: Sacre, Candace H What type of pipe have?

3:46:46 PM Staff Atty Tussey PSC - witness Buckenmeyer  
Note: Sacre, Candace H Not have any PVC?

3:46:56 PM Staff Atty Tussey PSC - witness Buckenmeyer  
Note: Sacre, Candace H Mentioned that Anacortes purchased leak detecting equipment, recall what averaged in water loss each year?

3:47:19 PM Staff Atty Tussey PSC - witness Buckenmeyer  
Note: Sacre, Candace H Since gotten leak detection equipment improved substantially or little bit?

3:48:26 PM Staff Atty Tussey PSC - witness Buckenmeyer  
Note: Sacre, Candace H What proximity then, how close have to get?

3:49:32 PM Staff Atty Tussey PSC - witness Buckenmeyer  
Note: Sacre, Candace H Approximately each day how many hours customers without water while installation going on?

3:50:18 PM Commissioner Regan - witness Buckenmeyer  
Note: Sacre, Candace H Examination. Would recommend this?

3:50:30 PM Commissioner Regan - witness Buckenmeyer  
Note: Sacre, Candace H Plan in Washington to add broadband?

3:51:57 PM Commissioner Regan - witness Buckenmeyer  
Note: Sacre, Candace H Technology would be beneficial for rural areas, right about that?

3:52:32 PM Chairman Chandler - witness Buckenmeyer  
Note: Sacre, Candace H Examination. Percentage deployed in abandoned pipe, of the total length of pipe that has fiber in it, saying only about one percent is

abandoned and other 99 active pipe?

3:53:47 PM Chairman Chandler - witness Buckenmeyer  
Note: Sacre, Candace H Five percent or less, fair?

3:54:00 PM Chairman Chandler - witness Buckenmeyer  
Note: Sacre, Candace H Have any difference of opinions if system PVC of HDPE?

3:54:28 PM Chairman Chandler - witness Buckenmeyer  
Note: Sacre, Candace H Cement pipe at all?

3:54:45 PM Chairman Chandler - witness Buckenmeyer  
Note: Sacre, Candace H City owned the pipes and city owned fiber?

3:55:00 PM Chairman Chandler - witness Buckenmeyer  
Note: Sacre, Candace H Any agreement or contract between two different divisions?

3:55:17 PM Chairman Chandler - witness Buckenmeyer  
Note: Sacre, Candace H Have discussions about use of fiber for metering?

3:56:15 PM Chairman Chandler - witness Buckenmeyer  
Note: Sacre, Candace H Metering, had AMR, monthly reads or bi-monthly?

3:56:38 PM Chairman Chandler - witness Buckenmeyer  
Note: Sacre, Candace H Got a system broken up in different areas, always mismatch in readings, your experience?

3:57:38 PM Chairman Chandler - witness Buckenmeyer  
Note: Sacre, Candace H Water loss, 20 percent above average, bigger issues dependence on manual read meters, find any increase in accounting where water was at any given moment?

3:58:44 PM Chairman Chandler - witness Buckenmeyer  
Note: Sacre, Candace H Not have requirement each of meters have backflow preventer?

3:59:05 PM Chairman Chandler - witness Buckenmeyer  
Note: Sacre, Candace H Mean each tap for each home pulling out fiber to run to that meter, additional concern?

4:00:03 PM Chairman Chandler - witness Buckenmeyer  
Note: Sacre, Candace H Still have RF mesh collection system, back haul not RF, using fiber optics?

4:00:24 PM Chairman Chandler - witness Buckenmeyer  
Note: Sacre, Candace H Had that in electric meters for decades?

4:00:31 PM Chairman Chandler  
Note: Sacre, Candace H Redirect? (Click on link for further comments.)

4:00:38 PM Chairman Chandler  
Note: Sacre, Candace H Another witness?

4:00:41 PM Atty Patterson Madison Utilities/Kirksville Water  
Note: Sacre, Candace H Jim Carr.

4:01:10 PM Chairman Chandler  
Note: Sacre, Candace H Witness is sworn.

4:01:14 PM Chairman Chandler - witness Carr  
Note: Sacre, Candace H Examination. Name and address?

4:01:25 PM Atty Patterson Madison Utilities/Kirksville Water - witness Carr  
Note: Sacre, Candace H Direct Examination. Lifelong in Madison County?

4:01:31 PM Atty Patterson Madison Utilities/Kirksville Water - witness Carr  
Note: Sacre, Candace H Background?

4:01:51 PM Atty Patterson Madison Utilities/Kirksville Water - witness Carr  
Note: Sacre, Candace H Work in banking business?

4:01:58 PM Atty Patterson Madison Utilities/Kirksville Water - witness Carr  
Note: Sacre, Candace H Which bank?

4:02:03 PM Atty Patterson Madison Utilities/Kirksville Water - witness Carr  
Note: Sacre, Candace H When left, president?

4:02:07 PM Atty Patterson Madison Utilities/Kirksville Water - witness Carr  
Note: Sacre, Candace H Working knowledge finances and construction, led to serve on Madison County Utilities Board?

4:02:22 PM Atty Patterson Madison Utilities/Kirksville Water - witness Carr  
Note: Sacre, Candace H How long chair of board?

4:02:28 PM Atty Patterson Madison Utilities/Kirksville Water - witness Carr  
Note: Sacre, Candace H Madison County Utilities stronger financially healthy now than ever?

4:02:39 PM Atty Patterson Madison Utilities/Kirksville Water - witness Carr  
Note: Sacre, Candace H Talk about this project and how it came to you and what your original impressions were, Taylor approached you?

4:03:00 PM Atty Patterson Madison Utilities/Kirksville Water - witness Carr  
Note: Sacre, Candace H Engineer was at that meeting?

4:03:03 PM Atty Patterson Madison Utilities/Kirksville Water - witness Carr  
Note: Sacre, Candace H Me and John Clark?

4:03:13 PM Atty Patterson Madison Utilities/Kirksville Water - witness Carr  
Note: Sacre, Candace H Explained to us what process was?

4:03:20 PM Atty Patterson Madison Utilities/Kirksville Water - witness Carr  
Note: Sacre, Candace H Able to describe concerns might have about project and what mean to county utility?

4:03:56 PM Atty Patterson Madison Utilities/Kirksville Water - witness Carr  
Note: Sacre, Candace H Communicate to Judge Taylor certain criteria for county to be involved?

4:04:09 PM Atty Patterson Madison Utilities/Kirksville Water - witness Carr  
Note: Sacre, Candace H No cost to company or customer?

4:04:15 PM Atty Patterson Madison Utilities/Kirksville Water - witness Carr  
Note: Sacre, Candace H No liability to company or customer?

4:04:21 PM Atty Patterson Madison Utilities/Kirksville Water - witness Carr  
Note: Sacre, Candace H Water quality always sufficient?

4:04:25 PM Atty Patterson Madison Utilities/Kirksville Water - witness Carr  
Note: Sacre, Candace H Assured all those things would happen?

4:04:32 PM Atty Patterson Madison Utilities/Kirksville Water - witness Carr  
Note: Sacre, Candace H Express that any regulatory approvals sought by county?

4:04:51 PM Atty Patterson Madison Utilities/Kirksville Water - witness Carr  
Note: Sacre, Candace H Rely on them to do that?

4:05:14 PM Atty Patterson Madison Utilities/Kirksville Water - witness Carr  
Note: Sacre, Candace H Level of confidence you had customers of Madison County going to be safe?

4:06:00 PM Atty Patterson Madison Utilities/Kirksville Water - witness Carr  
Note: Sacre, Candace H Legal distinction Madison County Utilities and Madison County, district operates independent of county?

4:06:20 PM Atty Patterson Madison Utilities/Kirksville Water - witness Carr  
Note: Sacre, Candace H Not consult with Judge Taylor or anybody else?

4:06:31 PM Atty Patterson Madison Utilities/Kirksville Water - witness Carr  
Note: Sacre, Candace H Ever feel pressure to accept project or move forward?

4:06:39 PM Atty Patterson Madison Utilities/Kirksville Water - witness Carr  
Note: Sacre, Candace H Have hesitated to say no if didn't think project beneficial?

4:07:10 PM Staff Atty Colyer PSC - witness Carr  
Note: Sacre, Candace H Cross Examination. Several criteria had to be in place to agree with this, any other requirements you believe necessary before allow construction start?

4:08:22 PM Staff Atty Colyer PSC - witness Carr  
Note: Sacre, Candace H Agree needs to be written contract signed by both parties?

4:08:36 PM Staff Atty Colyer PSC - witness Carr  
Note: Sacre, Candace H Any contract terms asked for from Fiscal Court rejected?

4:09:08 PM Staff Atty Colyer PSC - witness Carr  
Note: Sacre, Candace H Your understanding eventual signed contract include Fiscal Court reimbursing water district for attorney's fees?

4:09:32 PM Staff Atty Colyer PSC - witness Carr  
Note: Sacre, Candace H What about obtaining new easements or amending easements?

4:10:38 PM Staff Atty Colyer PSC - witness Carr  
Note: Sacre, Candace H Agree to right to be able to run fiber optic cable through water lines has value?

4:11:15 PM Staff Atty Colyer PSC - witness Carr  
Note: Sacre, Candace H Is your duty as water commissioner to Madison County or to customers?

4:11:27 PM Staff Atty Colyer PSC - witness Carr  
Note: Sacre, Candace H What benefits running fiber optic cable through water lines what benefit bring to ratepayers?

4:12:12 PM Staff Atty Colyer PSC - witness Carr  
Note: Sacre, Candace H Said fiber optic cable help people in Madison County?

4:12:30 PM Staff Atty Colyer PSC - witness Carr  
Note: Sacre, Candace H Think running fiber optic cable through water lines improve service?

4:13:07 PM Staff Atty Colyer PSC - witness Carr  
Note: Sacre, Candace H Believe opportunity for water district generate revenue implementation of broadband using fiber?

4:13:41 PM Chairman Chandler - witness Carr  
Note: Sacre, Candace H Examination. If some private industry Toyota, love to use water pipes, would be as interested or is public nature of proposal only reason considering it?

4:15:10 PM Chairman Chandler - witness Carr  
Note: Sacre, Candace H What want to get understanding of, any other type of proposal, interest not been there but for this reason?

4:15:55 PM Staff Atty Colyer PSC - witness Carr  
Note: Sacre, Candace H Cross Examination (cont'd). If you had revenue stream for district improve service for customers, use that money to fix leaks?

4:17:06 PM Staff Atty Colyer PSC - witness Carr  
Note: Sacre, Candace H Correct that declined to pay for leak sensing technology Craley install?

4:17:31 PM Staff Atty Colyer PSC - witness Carr  
Note: Sacre, Candace H District wants to employ Craley's leak sensing technology?

4:18:00 PM Staff Atty Colyer PSC - witness Carr  
Note: Sacre, Candace H Buckenmeyer from Anacortes, water system in Washington had redundant pipes minimize service interruptions when having Craley system installed?

4:18:27 PM Staff Atty Colyer PSC - witness Carr  
Note: Sacre, Candace H Does Madison Utilities have redundant pipes that would limit service interruptions during installation?

4:18:53 PM Staff Atty Colyer PSC - witness Carr  
Note: Sacre, Candace H Talked to anybody about number service interruptions as result fiber being installed?

4:19:39 PM Staff Atty Colyer PSC - witness Carr  
Note: Sacre, Candace H What do you mean by will be addressed, addressed how?

4:20:04 PM Staff Atty Colyer PSC - witness Carr  
Note: Sacre, Candace H Before sign contract, would want to know how many service interruptions and how long?

4:20:17 PM Staff Atty Colyer PSC - witness Carr  
Note: Sacre, Candace H Also want contract to say utilities district be responsible for damaging fiber?

4:20:46 PM Staff Atty Colyer PSC - witness Carr  
Note: Sacre, Candace H Would want contract also have a fixed price for metering or leak detection technology adoption?

4:21:25 PM Staff Atty Colyer PSC - witness Carr  
Note: Sacre, Candace H Talked to Baxter or other engineer effect of project on water line useful life?

4:22:07 PM Staff Atty Colyer PSC - witness Carr  
Note: Sacre, Candace H Baxter said something effect no different adding water line to main?

4:22:40 PM Staff Atty Colyer PSC - witness Carr  
Note: Sacre, Candace H Did you talk to him about effect of this on useful life of pipes?

4:22:50 PM Staff Atty Colyer PSC - witness Carr

4:22:56 PM Note: Sacre, Candace H Have any concerns about that?  
Staff Atty Colyer PSC - witness Carr

4:23:09 PM Note: Sacre, Candace H Concerns about potential response time to water line breaks?  
Staff Atty Colyer PSC - witness Carr

4:23:37 PM Note: Sacre, Candace H Satisfied with Iseral explanation how that be handled by county?  
Staff Atty Colyer PSC - witness Carr

4:24:04 PM Note: Sacre, Candace H What costs are involved in notifying customers of service interruption or boiler advisory?  
Staff Atty Colyer PSC - witness Carr

4:24:33 PM Note: Sacre, Candace H Expect county to pay for those when result from installation?  
Staff Atty Colyer PSC

4:24:39 PM Note: Sacre, Candace H All I have.  
Chairman Chandler - witness Carr

Note: Sacre, Candace H Examination. If thought impact service, would you have agreed to it?

4:25:00 PM Chairman Chandler - witness Carr

Note: Sacre, Candace H Discussion with Kirksville about this project?

4:25:37 PM Chairman Chandler - witness Carr

Note: Sacre, Candace H Not all details hammered out, because questioning happened in middle?

4:25:57 PM Chairman Chandler - witness Carr

Note: Sacre, Candace H It wasn't that you were content with details?

4:26:06 PM Chairman Chandler - witness Carr

Note: Sacre, Candace H Asked Taylor about questions were legitimate, have any expectation that questions asked are issues need to be addressed?

4:27:03 PM Chairman Chandler - witness Carr

Note: Sacre, Candace H Fine with allowing use portions of system but if new costs incurred expectation covered by county?

4:27:26 PM Chairman Chandler - witness Carr

Note: Sacre, Candace H But if cost already incurred not looking to share in recovery of cost, just new costs being driven but for this project not exist?

4:27:36 PM Commissioner Regan - witness Carr

Note: Sacre, Candace H Examination. And would that provision be in a contract?

4:27:48 PM Chairman Chandler - witness Carr

Note: Sacre, Candace H Expectation have separate contract with county than Kirksville will have with county?

4:28:47 PM Chairman Chandler

Note: Sacre, Candace H Redirect? (Click on link for further comments.)

4:28:53 PM Chairman Chandler

Note: Sacre, Candace H Additional witnesses? (Click on link for further comments.)

4:29:05 PM Chairman Chandler

Note: Sacre, Candace H Post-hearing data requests. (Click on link for further comments.)

4:31:34 PM Chairman Chandler

Note: Sacre, Candace H Briefs. (Click on link for further comments.)

4:34:53 PM Chairman Chandler

Note: Sacre, Candace H Anything else?

4:35:17 PM Chairman Chandler

Note: Sacre, Candace H Hearing adjourned.

4:35:36 PM Session Ended

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