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Missouri Public Service Commission

## PUBLIC SERVICE COMMISSION STATE OF MISSOURI

## IN THE MATTER OF: USW LOCAL 11-6 AND LACLEDE GAS COMPANY

Case Nos. GC-2006-0313 and GC-2006-0390

# **DEPOSITION OF ROBERT LEONBERGER**

JULY 6, 2006

30 mr Exhibit No. Case No(s) C-200 -0390 Date 2-26-07 Rptr 48

Offices Missouri 🛛 Illinois 🖛 Kansas

HEADQUARTERS: 711 NORTH ELEVENTH STREET, ST. LOUIS, MISSOURI 63101

800.280.3376 www.midwestlitigation.com

2       FUBLIC SERVICE COMMISSION         3       In the Matter of:       )         4       USW LOCAL 11-6,       )         5       and       ) Case Nos. GC-2006-0313         6       LACLEDF GAS COMPANY.       )         7       0       GC-2006-0390         10       July, 2006, between the hours of 8:00 a.m. and 6:00 p.m.       10         11       of that day at the offices of the Missouri Public Service       10         12       Commission, 200 Madison Street, in the City of Jefferson, GIT, MO 65109       11         14       15       KELLENE K. FEDDESSEN, RPR, CSR, CCR <td< th=""><th>1</th><th>Page 1 STATE OF MISSOURI</th></td<>	1	Page 1 STATE OF MISSOURI
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Page 2 1 APPEARANCES 2 FOR USW LOCAL 11-6: 3 JANINE M. MARTIN Attorney at Law 4 HAMMOND, SHINNERS, TURCOTTE, LARREW AND YOUNG, P. C. 5 7730 Carondelet Avenue, Suite 200 St. Louis, MO 63105 6 (314)727 - 10157 FOR LACLEDE GAS COMPANY (VIA TELEPHONE): 8 RICK ZUCKER Attorney at Law 9 Laclede Gas Company 720 Olive Street 10 St. Louis, MO 63101 (314)342 - 053211 FOR THE OFFICE OF THE PUBLIC COUNSEL: 12 MARC POSTON Senior Public Counsel 13 P.O. Box 2230 200 Madison Street, Suite 650 14 Jefferson City, MO 65102-2230 (573)751 - 485715 16 FOR THE STAFF OF THE PUBLIC SERVICE COMMISSION: ROBERT FRANSON 17 Senior Counsel 18 JENNIFER HEINTZ Assistant General Counsel P.O. Box 360 19 200 Madison Street 20 Jefferson City, MO 65102 (573)751 - 323421 22 SIGNATURE INSTRUCTIONS: 23 Presentment waived; signature requested. 24 EXHIBIT INSTRUCTIONS: 25 Attached to original.

1	INDEX	Page 3
2	Direct Examination by Ms. Martin	4
	Cross-Examination by Mr. Poston	64
3	Redirect Examination by Ms. Martin	65
	Cross-Examination by Mr. Zucker	65
4	Cross-Examination by Mr. Franson	67
	Further Redirect Examination by Ms. Martin	70
5	Recross-Examination by Mr. Franson	71
6	EXHIBITS INDEX	
7	Exhibit No. 1 Report and Order, Case No. GO-95-320	15
8	Exhibit No. 2 Data Requests to Staff	26
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22 23		
23		
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Page 4 ROBERT LEONBERGER, being sworn, testified as follows: 1 DIRECT EXAMINATION BY MS. MARTIN: 2 3 Would you state your name, please. 0. Robert Leonberger. 4 Α. 5 And you are aware that you've been noticed Q. 6 for deposition in connection with two separate complaints 7 filed by USW Local 11-6; is that correct? Α. 8 Yes. 9 0. And one of them is 2006-0313, which 10 involves the Grunsky bag method, and the other is 11 2006-0390, which involves the automated meter reading 12 program, correct? 13 Α. Yes. 140. Mr. Leonberger, who is your employer? 15 Missouri Public Service Commission. Α. 16 And how long have you been with that Q. 17 employer? 18Α. Got to calculate this. 25 years. 19 Q. What is your present position? 20 Α. I'm the assistant manager of the gas safety 21 engineering area. 22 Q. What are your duties in that position? 23 Α. Overseeing the gas safety program of the 24 Commission. We inspect all the gas utilities in the 25 state, the -- all the regulated utilities and the

1	Page 5 municipal utilities for gas safety.
2	Q. And have you had those same duties the
3	entire time that you've been employed by the PSC?
4	A. I've had the supervisor's job since about
5	1991.
6	Q. Okay.
7	A. Before that, I was an inspector with the
8	department.
9	Q. Were you always in gas safety?
10	A. Yes, I've always been in the gas safety
11	area.
12	Q. Do you belong to any professional
13	organizations whose focus are issues of gas distribution
14	or safety?
15	A. I'm a member of the National Association of
16	Corrosion Engineers.
17	Q. And what is that?
18	A. It's a NACE is the acronym. It's a
19	national it's an international association of corrosion
20	technicians and engineers that corrosion, one of the
21	aspects is the corrosion of pipelines.
22	Q. Do you have annual meetings or
23	A. There's annual meetings, but I haven't
24	attended one of those for a while.
25	Q. Okay. Any other professional organizations

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Page 6 1 related to gas distribution or safety? 2 Α. I was -- associations, the National 3 Association of Pipeline Safety Representatives. 4 0. National Association of? Pipeline Safety Representatives. It's an 5 Α. 6 organization of state pipeline safety managers like 7 myself. 8 Does that have a short thing? 0. 9 NAPSR. Α. 10Does that association hold any ο. NAPSR. 11 meetings? 12 Α. Yes, there's regional meetings and national 13 meetings. 14 Do you attend those at all? Q. 15 Α. Yes. 16 How often? 0. I attend basically all the regional 17 Α. 18 meetings annually and all the national meetings annually. 19 And what regional meeting is that? What 0. 20 region is covered by the region? 21 Α. The NAPSR is broken up into regions the 22 same as the Federal Pipeline Safety regions. They have 23 different -- the Federal Pipeline Safety Organization has 24 different regions, and Missouri's in the central region. 25 129 states in the central region. So we just mirror their

Page 7 1 breakup of the states. 2 Q. And so the people you meet with are your 3 counterparts in other states? Yes, as well as the federal office of the 4 Α. 5 Pipeline Safety people. 6 Okay. And those people work for the ο. 7 Federal Government? 8 Α. Right. 9 Now, I wanted to ask you a couple of 0. 10questions about gas incident reporting. The PSC, does the 11 PSC receive reports of gas incidents from gas utilities in 12 the state of Missouri? 13 Α. Yes. And how does that -- what is the -- is 14Q. 15 there a regulation in the State Code of Regulations that 16 requires that sort of reporting? 17 It requires a notification to the Staff of Α. certain incidents. 18 19 What are the incidents that need to be Q. 20 reported? 21 There's if it involves injury requiring Α. 22 hospitalization, if it involves a death, if it involves 23 property damage more than \$10,000. 24 Greater than 10,000. So if there is a gas Q. 25 incident that does not cause any property damage, say for

1	Page 8 example there's a gas leak and the utility finds it, fixes
2	the problem, nobody's hurt, that's not something that
3	would come to the attention of the PSC?
4	A. Often we have calls that we consider a
5	courtesy call, if the media is involved or something like
6	that, but it's not required that they call unless it meets
7	one of those criteria. There's another criteria, if it
8	doesn't meet any of those specific criteria I just gave
9	you, that if it is significant, quote, in the eyes of the
10	operator, that you call.
11	Q. Okay.
12	A. But a lot of times we'll get calls from
13	different operators because there's media involved. They
14	just want us to know about it.
15	Q. Okay.
16	A. That's not an incident report. It doesn't
17	meet the definition of incident.
18	Q. When incident reports are filed on the
19	ones on the incidents that meet the qualifications
20	you've just described to me, are those maintained by the
21	PSC?
22	A. An incident report will be something
23	that a Staff incident report is a report that the Staff
24	would file with the Commission. We would open a docket or
25	open a case number, and we would do an investigation and

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Page 9 1 then we would write a formal case, or write a formal 2 report. 3 Q. Okay. And it would be filed here or filed with 4 Α. 5 the Commission, yes. 6 0. And so those files are open to the public; 7 is that correct? 8 Α. Yes. 9 MR. FRANSON: No. 10 THE WITNESS: The Staff incident reports 11 would be. 12 MR. FRANSON: Hold on. The Staff incident 13 report, but that's different than the entire file. 14BY MS. MARTIN: 15 Q. Okay. So there may be certain parts of the 16 file that are not available to the public? 17 Α. Correct. The Staff incident report is 18 available to the public , and the filings would be --19 filings, responses and things like that would be in that 20 case file. 21 If -- when the cause -- let me strike that. 0. 22 When the PSC Staff is notified of a -- say 23 a significant property damage over \$10,000 as a result of 24 a gas situation, does it make a difference in terms of the 25 investigation whether the leak or the -- I'm sorry -- the

Page 10 1 problem was on, say, a pipeline that's owned by the gas 2 utility or on a furnace or a gas appliance that was in the customer's home? 3 The notification, we would want them to 4 Α. 5 notify us -- notify us so we would have that knowledge, but the actual jurisdiction that we would have would be on б piping that would be owned under the regulatory authority 7 8 of the Commission or if equipment that the company had 9 malfunctioned or if actions by one of the operating personnel caused that. 10 110. Okav. 12 Even though it may not be on the specific Α. 13 pipeline owned by the company. 140. Okay. Well, so if there's a problem on the 15 customer side, say a pipe in their home that maybe led to 16 their stove burst and there was an incident, would that be 17 investigated? 18 Α. Possibly, but if it was clear that we found 19 that the fire department said it was clearly a failure of 20 an inside pipe and it had nothing to do with the actions 21 of the company or the failure of the company facilities, 22 we may not do a formal investigation. 23 Q. Okay. Would you do an informal 24 investigation? 25 Α. We would find out what happened, yes.

1	Page 11 Q. Would that be mostly just to verify that it
2	wasn't the fault or on the utility property side?
3	A. Normally we would talk to the fire
4	department, the police department, the investigators
5	there, the fire marshals, to find out what happened. If
6	it's clear, all their investigations say it was clearly
7	this particular piece broke and there's no other
8	indications of something, we may not do a formal
9	investigation.
10	Q. So smaller incidents that happen that don't
11	involve injury or death, and by that I mean smaller gas
12	leaks that are found and captured by the gas company,
13	regardless of whether it's on the customer side or the
14	utility side property or equipment, those things are not
15	officially reported to the PSC?
16	A. Only in maybe overall leaks repaired for
17	that year, just a composite number of leaks repaired for
18	the year, something like that, but individually, no.
19	Q. Okay. So do you get data on overall leaks
20	per year from the utilities?
21	A. There's an annual report, has leaks
22	repaired during the year.
23	Q. And when does the annual report get filed?
24	A. February. We get that in February, then we
25	send it to we review it, then send it on to the Federal

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Page 12 Office of Pipeline Safety. 1 2 0. And each separate gas utility files its own 3 separate annual report? 4 Α. Yes. 5 What other sorts of statistics or Q. 6 information is contained in the annual report? Miles of pipe, number of service lines, 7 Α. 8 types of materials for each service line, lost and 9 unaccounted-for gas. 10 Q. Is the report long? 11 Α. It's two pages, three pages. 12 ο. When you get the report, does it indicate 13 how the leaks were detected, or is it just an overall 14 leaks per year, the number? 15 Α. There's a breakdown of -- there's four or 16 five different categories for the leak, what caused the leak. 17 18 Do you know if the leaks that are reported ο. 19 are leaks of a certain magnitude? I know in the 20 regulations they talk about a Class 1, Class 2, Class 3. 21 Does the breakdown that you're talking about separate them 22 out that way? 23 Α. NO. 24 Q. It's just all leaks? 25 Α. Right.

Page 13 1 **Q**. No matter how minor? 2 Α. Right. 3 ο. Okay. Well, I would say that there are a few 4 Α. above-ground small like fizz leaks on a meter set piping 5 6 that would be considered a Class 4 leak that wouldn't 7 be -- necessarily be required to be in that report. 8 So Class 4 is the most minor? 0. 9 Right. Α. Do the regulations require, to your 10٥. 11 knowledge, the utilities, the gas utilities to perform gas 12 safety inspections on the customer side at any particular 13 times? When the gas is physically turned on. 14Α. 15 Q. And that's what we call turn-ons, right? 16 Right. When the gas is physically turned Α. on, the company is required -- company or municipality is 17 required to go inside and do an inspection. 18 19 And with a home sale inspection situation, Q. 20 is that another time when a gas safety inspection is done? 21 It's not required then. Α. 22 It's not required? Q. 23 Α. Right. 24Do you know if most of the utilities do it Q. 25 here in Missouri?

Page 14 1 Α. I don't believe any of them do that, except Laclede. 2 3 Q. Laclede does them; is that right? 4 Α. Right. 5 Do the gas utilities provide any statistics ο. 6 to the PSC that discuss or address whether or not gas 7 hazards are discovered or potential hazards are discovered 8 during these gas safety inspections that are done at 9 turn-on or home sale inspections? 10 Α. No. 11 Do the regulations address the issue of the ο. 12changing out of gas meters by the gas utility? 13 Α. Just the requirement to do changes, I mean, 14the change in the meter. 15 0. That's discussed in the regulations? It's discussed in the statute, not the 16 Α. 17 regulation. 18 MR. FRANSON: I need to just put a 19 continuing objection, and I should have done this a little 20 earlier. Certainly I have no objection to Mr. Leonberger 21 testifying about his knowledge of the regulations, but 22 certainly the regulations and statutes covering these 23 subjects do speak for themselves, and if he inadvertently 24 leaves something out, that would be the final authority on 25 the subject.

	Page 15
1	MS. MARTIN: Right. That's fine.
2	MR. FRANSON: So as long as we can agree I
3	can have a continuing objection?
4	MS. MARTIN: Yes.
5	BY MS. MARTIN:
6	Q. That's right. And I should tell you, I am
7	only wanting your knowledge. I'm not actually going to
8	quote you for what comes in there. I'm just sort of
9	leading us up to the Grunsky bag set of questions.
1.0	So the process or timing of meter
11	change-outs is something that's addressed by the statute?
12	A. It's addressed by the statute, and in
13	Laclede's case and a number of the other gas utilities
14	it's addressed by a waiver to the statute, as far as how
15	the meter is changed out.
16	Q. Okay. Why don't we in connection with
17	that, let me just give you I guess we'll call it
18	Exhibit 1, Union Exhibit 1.
19	(UNION EXHIBIT NO. 1 WAS MARKED FOR
20	IDENTIFICATION BY THE REPORTER.)
21	BY MS. MARTIN:
22	Q. I've handed you what is Plaintiff or Union
23	Exhibit No. 1, and it's a Report and Order in Case
24	No. GO-95-320; is that correct?
25	A. Yes.

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	Page 16
1	Q. Do you recall this case?
2	A. Yes.
3	Q. And do you recall whether or not this case
4	involved issues dealing with the changing of meters?
5	You know, let me rephrase that. What I
6	understand this case to be on just correct me if I'm
7	wrong. I'm not actually going to ask you any questions
8	about it. But very
9	MR. FRANSON: I'm sorry. I can't I'm
10	going to have to object. A question correct me if I'm
11	wrong would suggest you're about to make a statement. I
12	would ask that you ask the witness questions. I mean, if
13	you want to interpret it and then ask him questions,
14	that's fine, but just kind of leaving him hanging, correct
15	you if he's wrong on a legal matter, I'm sorry, I'm going
16	to have to object to that. More the form of the question
17	than anything.
18	MS. MARTIN: Yeah. And that's fine. Let
19	me finish my question, and we'll see if that fixes the
20	problem
21	BY MS. MARTIN:
22	Q. In this case Laclede requested a variance
23	from the method it was using to select meters to be
24	changed; is that correct?
25	A. Yes.
1	

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1	Page 17 Q. Okay. And at the time the time before
2	this Case 95-320 was heard, was Laclede using the method
3	that was set forth in the statute to change to select
4	meters for change?
5	A. Yes.
	Q. Okay. And in this case we're talking about
6 7 8 9	here, 95-320, Laclede was requesting a variance that would
8	allow it to use a statistical meter sampling method to
9	select meters for replacement; is that correct?
10	A. Yes.
11	Q. Until recently, I think really until
12	earlier this year, is this still the method that Laclede
13	had been using, do you know?
14	A. They've been using it since '95, as far as
15	I know.
16	Q. And still they're using this method?
17	A. Yes.
18	Q. Okay. That's actually all I had on that,
19	so let's move on. Are you familiar with a process for
20	changing gas meters that's referred to as the Grunsky bag
21	method or Grunsky method?
22	A. I'm familiar with it, yes.
23	Q. And which terminology do you prefer for
24	that, Grunsky bag or just Grunsky method?
25	A. Doesn't make any difference.

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Page 18 1 0. Okay. I'm afraid I'll use it 2 interchangeably. If I say Grunsky method, I mean the 3 Grunsky bag method, and vice versa. Other than Laclede, are there gas utilities 4 5 in Missouri that you know of that are using the Grunsky 6 bag method? 7 Α. Yes. 8 0. Is this process a process for -- can you 9 describe to me how the Grunsky method works, if you know? 10 I mean, what's done just --11 Α. It's a method to change the meter without 12having to turn the flow of gas off. Do you want 13 specifically how the step through --14No, you don't need to describe it that Q. 15 much. Prior to the implementation or the use of the 16 Grunsky method, would the gas have to be turned off when a 17 utility changed a gas meter? There are other methods besides a Grunsky 18 Α. 19 method that can be used, but prior to the use of the 20 Grunsky method, the utilities I'm aware of were using the 21 traditional change-out. 22 So here in Missouri, you don't know of Q. 23 other utilities that were using another sort of method for 24 changing the gas meter that allowed them to keep the gas 25 on prior to the Grunsky?

1	Page 19 A. MGE is using the Grunsky bag method, has
2	for 10, 12 years.
3	
	Q. Okay. Does the do you know of any
4	statute or regulation that requires a certain type of
5	process for changing gas meters
6	A. No.
7	Q here in Missouri?
8	So when the utilities want to use, for
9	example, the Grunsky method, do they need to come to the
10	PSC to request approval?
11	A. No.
12	Q. Do they let's start with MGE. When they
13	decided to start using the Grunsky method, did they come
14	to the PSC and at least alert the PSC they were going to
15	start using this or start using it in conjunction with
16	other methods?
17	MR. FRANSON: I'm going to think about an
18	objection. We have to be real careful talking about other
19	utilities. Unless that information is public,
20	Mr. Leonberger cannot answer that.
21	MS. MARTIN: Okay.
22	MR. FRANSON: So as long as it's public, I
23	will have no objections to him answering the question, but
24	I remind everyone here that it must be public information
25	about other utilities or otherwise he cannot answer.
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Page 20 1 BY MS. MARTIN: 2 Would you know if that's public Q. 3 information? 4 Α. It wouldn't be public information because 5 it wasn't part of a case. 6 Okay. So let me ask it then in regard to ο. 7 Laclede, let me ask you this: When did you first find out 8 that Laclede was going to be using the Grunsky method? 9 I'm not real sure. Α. 10 ο. Okay. Did you have any -- did the PSC do 11 any investigation or did they have any discussion -- let 12 me ask it that way -- prior to the time the Union filed 13 its complaint about Laclede's use of the Grunsky method? 14 We had discussions, yes. Α. 15 So you knew they were going to be using the Q. 16 Grunsky method before the Union filed its complaint? 17 Α. Yes. 18 ο. Was any sort of investigation done of 19 Laclede's decision to start using the Grunsky bag in some 20 situations? 21 I was aware of the pilot programs they had Α. 22 done. 23 I guess I'm just trying to avoid getting Ο. 24 into the problem where I'm asking you about anything 25 that's private or not public knowledge, but just tell me

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1	Page 21
2	At the time Laclede let you know they were
3	going to start doing it, did the Commission perform any
4	sort of studies or investigations on its own about whether
5	or not the Grunsky method was a safe and effective method
6	of changing meters?
7	A. A formal investigation?
8	Q. Yes.
9	A. No.
10	Q. Was there an informal investigation?
11	A. Like I said before, we were aware of the
12	pilot programs they were doing, what they had done with
13	those pilot programs.
14	Q. So you would say it's more a matter of
15	Laclede letting you know what was going on, keeping you
16	abreast of it?
17	A. Right.
18	Q. And let me just ask you this, too, because
19	you use the word formal investigation, and I think I know
20	what you mean, but is there a are there any, like,
21	written provisions in the regulations or something that
22	make a distinction between a formal investigation or
23	informal investigation?
24	A. By formal or informal, I mean, we had
25	discussions with them about what they were going to do.

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1	Page 22 We did not have a formal written-out memo-type
2	investigation, no.
3	Q. So there wouldn't be any written records or
4	memos that the PSC Staff had put together about the
5	Grunsky method?
6	A. Correct.
7	Q. Do you know, do you guys maintain any
8	statistics from either Laclede that are public or MGE that
9	are public that describe or discuss the use of the Grunsky
10	method in practice?
11	A. Do we require them to give it to us?
12	Q. I'm wondering if you maintain any records
13	of those.
14	A. No.
15	Q. At the time Laclede discussed with the
16	Staff its decision to start using Grunsky and that it was
17	going to be performing this pilot project, did the Staff
18	have any concerns about the safety of this method of meter
19	change?
20	A. No.
21	Q. Does that remain true today after it's been
22	used for a while?
23	A. My no answer is based upon the fact that we
24	had known that for ten years or so that MGE had performed
25	that and done thousands, maybe tens of thousands of these

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Page 23 1 and had not had a problem. 2 MR. FRANSON: Can we stop and go off the 3 record? (AN OFF-THE-RECORD DISCUSSION WAS HELD.) 4 5 BY MS. MARTIN: 6 Q. I think we were just at -- you guys knew 7 that for the past ten years MGE had been doing it without 8 a problem. I think that was our last answer. Do you know 9 whether or not MGE and Laclede performed the Grunsky 10 method in the same fashion? 11 MR. FRANSON: I think we're going down the same problem because you're asking other -- you're asking 12 13 information about other companies that I -- I'm -- I guess 14I need to hear Mr. Leonberger say his knowledge of that 15 subject would be public information. Otherwise, I'm going 16 to have a problem with him answering the specifics about 17 what he knows about MGE. 18 BY MS. MARTIN: 19 Q. All right. 20 Α. My answer is going to be that, from my 21 knowledge, they both use the process -- procedure spelled 22 out in Grunsky's --23 Literature? ο. 24Α. Literature, yes. 25 Q. Okay. So the way I understand it, when the

1	Page 24 Grunsky method is used and these meters are changed
2	without turning off the gas, the utility does not need to
3	do a gas safety inspection on the customer side; is that
4	correct?
5	A. The gas is not turned off, so it would not
6	be required to be physically turned back on; therefore, an
7	inside inspection would not be required.
8	Q. Okay. The other question I have about
9	that, and I don't know if this is something you know
10	about, but when you're using the Grunsky method in
11	accordance with the Grunsky literature, is the gas
12	regulator pressure pressure-checked after that meter
13	change?
14	A. I'm not sure I understand.
15	Q. Yeah. Is there a gas regulator on the
16	meters that are changed?
17	A. Not all of them.
18	Q. Okay. On the ones that do have a gas
19	regulator, do you know if that pressure is normally
20	checked after a meter change when the Grunsky method is
21	not used?
22	A. I'm not aware.
23	Q. Okay. If the Grunsky method eliminates the
24	need to turn on the gas, therefore, it eliminates the need
25	for these customer-side gas safety inspections; is that

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1	Page 25
1	correct?
2	A. If the gas is not physically turned on, it
3	would not be inspection would not be required.
4	Q. All right. Do you know if there's
5	anything, any other sort of inspection on the customer
6	side that replaces that that's performed by the utilities?
7	A. Replaces?
8	Q. The gas safety inspection that would be
9	done at turn-on, if there's fewer turn-ons when this
10	Grunsky method is being used. Are there other
11	inspections, I guess is what I'm asking you, on the
12	customer side other than at turn-on?
13	A. Laclede does the home sale inspection.
14	That's not a regulated part of what we do
15	Q. Right.
16	A but Laclede does that home sale
17	inspection.
18	Q. Yeah. And I think what I was just trying
19	to get is an answer to that. I mean, do the regulations
20	require any other sort of inspection on the customer side
21	other than at turn-on? And I think
22	A. No.
23	Q you've answered that no.
24	Okay. And that's the only customer-side
25	gas safety inspection that the regulations discuss; is

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1	Page 26
1	that correct?
2	A. State regulations, yes. The federal
3	regulations don't require that.
4	Q. Okay. So that's only in the state, not the
5	federal?
6	A. Correct.
7	Q. I'm going to give you the what will be
8	Plaintiff's Exhibit or Union Exhibit 2.
9	(UNION EXHIBIT NO. 2 WAS MARKED FOR
10	IDENTIFICATION BY THE REPORTER.)
11	MR. FRANSON: Actually, if you're going to
12	give this to Rick, that will save me the trouble.
13	MR. ZUCKER: What's being handed out?
14	MR. FRANSON: Exhibit No. 2. It's the DR
15	to Staff actually the DR is from Staff to I'm
16	sorry from the Union to Staff.
17	MS. MARTIN: Do you not have a copy, Rick?
18	THE WITNESS: Our response.
19	MS. MARTIN: It's the response.
20	MR. ZUCKER: No, I do not have a copy.
21	MS. MARTIN: Well, you soon will, I guess.
22	THE WITNESS: Sorry, it's my fault.
23	MR. ZUCKER: It's okay.
24	BY MS. MARTIN:
25	Q. Okay. Do you recognize Exhibit 2 as the

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Page 27 1 PSC's responses to the Union's Data Request in Case 0313, 2 which is the Grunsky bag case? 3 Yes. Α. 4 0. Okay. And are you the individual that 5 provided the information in the responses? 6 Yes. Α. 7 ο. And that's your signature at the bottom of 8 page 2? 9 Α. Yes. 10 0. The response to Data Request 1 indicates 11 that in January of 2006 the Staff inquired to Laclede about information that Laclede had about the Grunsky 12 13 method. What precipitated that inquiry? 14Α. General information, just what they were --15 what exactly they were doing. 16 Q. Well, was January '06 close to the time 17 when you had first learned that they would be implementing 18 the Grunsky method? 19 Α. I think we -- I knew about it before then. 200. And had any discussion been held before 21 then with Laclede and Staff? 22 I don't know when, but I believe we -- we Α. 23 talked about they were going to do a pilot program, but I 24 really had -- nothing formal, no. 25 Are the documents that are attached to the 0.

1	Page 28 DRs, which I'll read your description of them, it's a
2	brochure, an equipment catalog slash product list and a
3	memorandum describing the Grunsky meter change method.
4	You listed them in Data Request 4. Are those the only
5	documents you received from Laclede in response to your
6	inquiry to Laclede?
7	A. Yes.
8	Q. Did the Staff review any other documents
9	that were evidently not provided by Laclede?
10	A. We looked at I think I said here
11	somewhere that I looked on the Internet just to see what
12	else was available for the Grunsky bag method.
13	Q. Which leads to my next question. Did any
14	of the sites that you look at or looked at contain
15	information other than the descriptive information that
16	you list here, like patent dates and the description of
17	the method?
18	A. No.
19	Q. The response also states that the Internet
20	turned up this is the last sentence of your first
21	response no information indicating problems with the
22	method found. Do you see where I am?
23	A. Right.
24	Q. Okay. Was this because it was an absence
25	of data on problems found or not found?

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Page 29 1 I just didn't find anything. Α. 2 Q. Okay. Did you find any information 3 discussing whether or not there were -- that stated there were no problems with the method? 4 5 Α. Just the information about it was being 6 used and successfully. 7 Q. So it was just general information that you found? 8 9 Α. Right. 10 ο. In DR -- in Data Request 2 in your 11 response, you have the word studies in a parenthetical. Ι 12 want to make sure that doesn't mean -- does that mean that 13 the Staff might have undertaken another sort of research that wouldn't be covered by the word studies? 14 15 Α. The word studies is used in the Data 16 Request, and so I used that just studies, meaning that we 17didn't have, as I said before, any formal -- we started a 18 formal investigation of the Grunsky bag and had, you know, 19 information written out about that, no. 20ο. So it doesn't mean that there may be other 21 written documents --22 Α. No. 23 -- that Staff prepared that you wouldn't 0. 24call a study? 25 Α. No.

1	Page 30 Q. Okay. In DR 3, you list conversations or
2	
1	the names of people with whom the Staff discussed the
3	Grunsky bag method who worked for Laclede. Was it you who
4	had the conversations with these individuals that are
5	listed in DR 3?
6	A. Yes, we were yes, there was other we
7	were talking about things, but I may have I put those
8	names down as who I thought we talked to. I don't have
9	detailed notes of who I talked to on that stuff. It's
10	just by my recollection.
11	Q. But it probably would have been you who had
12	the conversations?
13	A. I have had the conversation, yes.
14	Q. And who is Mark Lauber?
15	A. Mark Lauber is a superintendent for
16	Laclede. We work with him in the operations side.
17	Q. And what about Ben McReynolds?
18	A. I'm not sure of Ben's exact title.
19	Q. Did he have some responsibility for
20	implementing the Grunsky bag method on Laclede's side?
21	A. We were talking to Laclede about a number
22	of things at the time, and I put his name down because we
23	talked about some things, and I'm not sure if Ben was
24	there was other Laclede personnel. I believe Ben was
25	there, but it may have been other subjects we were talking

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1	Page 31 about the same time that I talked with Ben. So if Ben
2	says he wasn't there, he may not have been there. I may
3	have confused him with another conversation we may have
4	had.
5	Q. Okay. What were you told about the pilot
6	program for the Grunsky bag by Laclede personnel?
7	A. That they were doing a pilot in the Mo Nat
8	area and had done a pilot in the Laclede area before they
9	started implementation.
10	Q. What is first area you said?
11	A. Missouri Natural.
12	Q. And were you given the details of the
13	program?
14	A. My understanding, they had done
15	approximately 100 meters in the Missouri Natural area
16	where they had actually used the Grunsky bag and gone
17	inside to see if there were any problems with the pilot
18	lights still being lit.
19	Q. Were you told about the pilot program
20	before the pilot program or after?
21	A. I think I was aware of it. We weren't
22	really I wasn't tracking it for a specific event, but I
23	think I was aware of it.
24	Q. Okay. Were you told that what the
25	results of the pilot program were?

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1	Page 32 A. At this point, yes.
2	Q. When they were if you know, when they
3	were checking in the houses during this pilot program
4	after doing the Grunsky method meter change, do you know
5	what was being checked?
6	A. My understanding was just to see if the
7	pilot lights were still operational.
8	Q. And the pilot lights would be on gas
9	appliances, gas furnaces
10	A. Right.
11	Q things like that?
12	So the only other utility in Missouri, gas
13	utility that you know that uses this method is Missouri
14	Gas Energy; is that correct?
15	A. Yes.
16	Q. If another
17	A. That I'm aware of.
18	Q. I'm sorry. If another gas utility in
19	Missouri wanted to use the method, would they have to come
20	talk to the PSC first?
21	A. They wouldn't have to come talk to the PSC,
22	no.
23	Q. Okay. So they could just start using it
24	without letting the PSC know?
25	A. Yes.

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Page 33 1 Q. So it's possible somebody else might be 2 using it and you just don't know yet? 3 Α. Possibly. 4 Q. Missouri Gas Energy, you indicated, has 5 been using it for about ten years? 6 Α. Over ten years, I believe. 7 Q. I'm going to ask you a question about this, 8 and just let me know if I'm crossing over into public or 9 private --10 MR. FRANSON: We'll let you know. 11 BY MS. MARTIN: 12 Q. -- information. 13 You state in here that MGE personnel 14indicated that they had had success using the method and 15 had not identified any problems using the method. That's 16 the last sentence of DR 3. 17 My question is, do you know, does that --18 did that mean to you that they had been using -- what do 19 you mean to say in that sentence, is what I'm trying to 20 get at? Did you mean to say that they'd been using the 21 method, they had not had problems with pilot lights going 22 out or other sorts of gas leak issues when they were using 23 this method? 24 Α. Yeah, basically the method was successful 25 and they were able to change the meter out without

Page 34 problems like the pilot lights going out, things like 1 2 that. 3 They had not identified any problems using Q. 4 the method. Does that mean that they -- that you were not 5 aware that -- that there were never situations where pilot lights were going out? б 7 Α. I basically asked them that question, if 8 they know of any problems. The answer was no. 9 In either the -- have you discussed or -ο. 10 in the meetings that you go to for the NAPSR, regional or annual, has the Grunsky bag method been discussed? 11 12 I don't recall. Α. 13 Do you get literature from that 0. 14 organization? We have just mailings when we're going to 15 Α. 16 have meetings and things of that nature. We have phone calls on a continuous basis. 17 18 Not like newsletters about the HUD issues **Q**. 19 and gas safety? 20 Α. No. 21 Okay. What about the other organization, 0. 22 NACE? I know you testified that you don't go to meetings, 23 but do you get any sort of written newsletters or --24 Α. There's newsletters from that. That is a 25 corrosion control organization.

1	Page 35 Q. So Grunsky wouldn't be discussed in that?
2	A. Correct.
3	Q. Are there any do you know if there are
4	limitations on time of year that the Grunsky method can be
5	used successfully?
6	A. I would assume that my understanding
7	would be the size of the load could possibly be a problem,
8	but that could be the load could be at a time of year
9	or it could be at a size of the facility. But I mean, if
1.0	the meters change out fairly quickly, I'm not sure there's
11	a problem in most residential applications.
12	Q. Does it make a difference whether or not
13	the Grunsky's being used in the summer as opposed to the
14	winter?
15	A. On a residential application, the load
16	would be less possibly be less in the summertime, but
17	the amount of time that the meter's out of service
18	doesn't wouldn't necessarily make it a problem.
19	Q. And when you're talking about the load, is
20	that the amount of gas that's being
21	A. Yes.
22	Q given to a house or business?
23	Okay. I'm going to ask you a couple of
24	questions about AMR now, and I don't believe that we have
25	our responses to our AMR discovery, so that should
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1	MR. FRANSON: Before we go on, have you
2	sent any discovery requests to Staff in the AMR case?
3	MS. MARTIN: No.
4	MR. FRANSON: That's all I wanted to be
5	sure.
6	MS. MARTIN: We don't have responses, but
7	it wasn't to you-all that we served it.
8	MR. FRANSON: I was going to say, if you
9	had, I wasn't aware of it.
10	MS. MARTIN: No, we haven't.
11	BY MS. MARTIN:
12	Q. When did you first when did the Staff
13	first learn that Laclede wanted to implement a system-wide
14	AMR, automated meter reading system on its gas meters?
15	A. I'm not really aware. I think over five
16	years ago.
17	Q. When I ask you to provide me a day or a
18	time frame, I'm not expecting you to be able to say
19	January '01. Just an estimate's fine. And how did you
20	become aware that Laclede wanted to implement the AMR on
21	its gas meters?
22	A. Just discussions with us about that.
23	Q. Is the transfer of the meters to an AMR
24	system something that Laclede needs to have approval from
25	the PSC for?
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Page 37 The actual transfer of taking the index 1 Α. 2 off, putting a new index on, no. I guess there are rate 3 implications that sometimes they come in and talk to us 4 about the rate implications that may -- not me particularly, but our rate staff of rate implications of a 5 6 large project, but --7 So just to make sure I understand this, if Q. 8 Laclede just wanted to take the dial that was on their 9 meters and change it to this AMR dial, this device to do 10 the reading, that's not something they would need approval 11 for, but there may be other implications of that they 12 would need approval for? 13 Correct. Specifically their tariff, they Α. 14were changing the way that AMR was going to be used to do 15 certain things, and the tariff required them to do certain 16 things, so the tariff was changed. 17 Okay. And so I think one of the things 0. 18 we're all familiar with from one of the other issues that 19 arose was the variance case where they needed to have a --20 they wanted a change in how the meters were replaced or 21 selected for replacement as a result of AMR? 22 Right. Α. 23 Q. But that was a separate matter? 24Right. Α. 25 Okay. Did you have any discussions with Q.

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Page 38 1 anybody from Laclede about their implementation of AMR or 2 their plan to implement AMR? 3 Α. Over the years? yes. 4 Q. Yes, over the years. Let's just go back, 5 though, to when you first learned about it. Do you recall 6 having discussions with folks at Laclede about their plan 7 to implement AMR? 8 Yes, we had discussions about it. Α. 9 Q. Okay. Do you know who you discussed it 10 with? 11 Α. Various people. The person that was the 12 head of that was Bo Matisziw, M-a-t-i-s-z-i-w. 13 M-a-t-i-s-z-i-w. 14 Were you provided any documents from 0. 15 Laclede about AMR? 16 I can't recall if we had documents or not. Α. 17 Well, did the PSC Staff do a formal 0. 18 investigation of the AMR project? 19 Did our Staff? Α. 20 Q. Yeah. 21 No. Α. 22 So ---Q. 23 I know that our engineering analysis or our Α. 24 people had back, I think in the mid '80s had done a 25 recommendation that Laclede actually go to AMR. So our

Page 39 one area where Staff had made a recommendation in one of 1 2 our audits that Laclede should consider using AMR, I think it was a 1985 case. 3 4 And that's a case with a 1985 dash -ο. 5 Α. It's a management audit case. What's a management audit? 6 0. 7 The PSC has a section that does management Α. 8 audits and looks at the efficiency of the operations. Ιn G this case they looked at using AMR as one of the aspects 10 of that particular audit. 11 ο. So when a management audit is done and a 12 gas utility or another utility, but we're talking about 13 gas utilities, so --14 Right. Not only gas utilities, I think, Α. 15 but in this case, that's the one they did on Laclede. 16 ο. Other than that, did the PSC Staff prepare 17 any written documents discussing the benefits or costs of 18 AMR? 19 Α. No, my staff didn't. 20 Q. Do you know whether or not there was a test 21 program with Laclede for the AMR implementation? 22 I think they had a pilot program, but I Α. 23 don't know when it exactly was. 24 There are other gas utilities in Missouri 0. 25 that have AMR on their gas meters; is that correct?

	Page 40
1	A. Yes.
2	Q. Do you know which ones they are?
3	A. I know MGE has a form of AMR. It's not
4	quite the same as what Laclede is using, and then AmerenUE
5	has the basically used the same Celnet technology, I
6	believe.
7	Q. And do either MGE or AmerenUE have to
8	provide statistics or reports to the PSC about their
9	automated meter reading programs?
10	A. To my group specifically about safety or
11	Q. Well, safety effectiveness, how well it
12	works, problems that are associated with it.
13	A. They may be required in a rate case or some
14	other case, but I'm not aware. It's not given to me.
15	Q. They don't have to report anything to you
16	about how well the system's working?
17	A. Correct. There may be other things in like
18	a rate case that a management audit looks at or something
19	like that, but I'm not aware of it. My staff does not
20	have anything.
21	Q. Now, if a hypothetically, if a gas leak
22	occurred at a Celnet, when the Celnet device was put in,
23	it would be reported should it fall into the categories we
24	talked about earlier where it caused property damage over
25	a certain amount or loss of life or injury or something

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1	Page 41 like that; is that correct?
2	A. Well, if there's a gas leak, that should be
3	reported to Laclede that there was a gas leak and they
4	would respond to that leak. Now, reported, do you mean
5	reported to the PSC?
6	-
7	A. Like I said, that criteria, it wouldn't
8	necessarily be reported to the PSC.
9	Q. And that's what I was trying I mean, my
10	question was just, you would hear about the results of it
11	only if it fell within those, the loss of life, damage to
12	property that we talked about earlier; is that correct?
13	A. Well, I become aware of some that there has
14	been allegations that there has been some leaks on some,
1.5	but we've looked into those addresses and those meters,
16	yes.
17	Q. How would you hear about those?
18	A. Through complaints.
19	Q. From the public you mean?
20	A. Yes.
21	Q. Let me just before I ask you about that,
22	when you get the other report, we had talked about annual
23	report, and on there the annual amount of gas leaks is
24	reported. It doesn't break it down by where it was?
25	A. No.

1	Page 42 Q. So it just would say 100 gas leaks were
2	found this year?
3	A. Corrosion leak, a leak due to material
4	defect, leak due to outside force damage, those kind of
5	categories.
6	Q. So there are categories. It's just you
7	wouldn't say we had a leak at the meter?
8	A. Right.
9	Q. That would maybe fall within the equipment,
10	the second one you mentioned?
11	A. It would depend on what the particular leak
12	was.
13	Q. So what are the categories on that annual
14	report for gas leak, if you know?
15	MR. FRANSON: Mr. Leonberger, if you're
16	going to cite a specific regulation, please do that when
17	you answer.
18	THE WITNESS: There's a specific form from
19	the it's actually the Pipeline Hazard Materials Safety
20	Administration of the Department of Transportation, the
21	cause of the leaks. There are corrosion, natural forces,
22	excavation, other outside force damage, material or wells,
23	equipment, operations and other.
24	BY MS. MARTIN:
25	Q. Okay. And that's something we could find

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Page 43 1 in the public domain and looks like in the regulations 2 that you've got? 3 Α. Right. I mean, there's --4 It's one of the forms? ο. 5 It's a form -- it's a federal form that's Α. 6 required to be turned in to the Federal Department of 7 Transportation annually. 8 Q. Okay. And now, you also say that 9 occasionally you get, I guess, calls from the public 10 reporting problems directly to the PSC; is that correct? 11 Α. Correct. 12 Now, do you-all have a hotline for that? Q. 13 Α. We have a consumer services line. 14 Q. And the public takes advantage of this, I 15 gather? We have -- they have all sorts of 16 Α. 17 complaints from all sorts of different utilities. 18 0. When you receive a complaint from a gas 19 utility customer -- we'll hear speak specifically about 20 AMR since that's the subject of the complaint. Say 21 somebody called in, said somebody came over and stuck this 22 AMR device on my meter, now I have this nasty gas odor and 23 I called the people and complained. Does the PSC do 24 anything about that? 25 I'm not sure how I got this, but we've Α.

Page 44 looked at a couple of addresses where there's a --1 2 supposedly a severe leak caused and we checked with 3 Laclede about what they -- they wanted to test that meter. 4 Q. And is a formal investigation done at that 5 time? 6 We just ask them if they tested that meter Α. 7 and what the specifically was the problem with that meter. 8 You're talking about you asked Laclede? Q. 9 Α. Yes. 10Q. Okav. So the consumer would call the PSC 11 and then the PSC calls Laclede? 12 I don't know if it's a consumer or if it's Α. 13 someone else. 14 0. Someone else? 15 Could be an employee or something. I'm not Α. 16 sure. 17 MR. ZUCKER: Excuse me a minute. This is 18 Rick Zucker. We're talking hypothetically now, or are we 19 talking about an actual complaint? 20 MS. MARTIN: Well, I was actually asking 21 about a hypothetical, just generally what the PSC would do 22 in that situation, and I think he's just mentioned a 23 couple of addresses but we haven't specifically asked 24 about those addresses. 25 MR. ZUCKER: He's mentioned a couple of

Page 45 addresses? 1 MS. MARTIN: He just mentioned that he 2 looked at a couple of addresses. 3 MR. FRANSON: Rick, he has not said it's 4 123 Laclede Building in St. Louis, Missouri or something 5 6 like that. No, he has not named a specific address yet. 7 MS. MARTIN: Does that answer your 8 question? 9 MR. ZUCKER: Sort of. Go ahead. 10 BY MS. MARTIN: 11 Okay. So in any event, somebody called. Q. 12 We don't know if it's a consumer or an employee. They 13 tell you there's a problem, and you-all will call Laclede 14 to ask Laclede to give you information about it; is that 15 correct? 16 Yes. Α. 17 Q. And that would be the general process when 18 a customer calls in with a leak or an employee or 19 whoever's calling it in, that's the normal process you-all 20 would follow? 21 It depends on what the allegation is. Α. 22 Okay. So for other sorts of allegations Q. 23 you would perhaps follow a different path? 24 Perhaps we would -- in the course if we're Α. going to do an inves-- we do our annual inspections of 25

Page 46 1 Laclede at different times. We would maybe incorporate 2 looking at that in the course of our normal looking at 3 records. So we wouldn't just ask them what it is, we may try to find it ourselves, or we may actually do a special 4 5 inspection, go up there and say, we want to see the leak 6 records for an area. So it depends on what the allegation 7 is. 8 Okay. Now, going more specifically to AMR, ο. 9 have you had occasion to call Laclede about complaints 10 you've received on the consumer hotline about AMR 11 installation? 12 I think it was the consumer hotline, but I Α. 13 can't remember what it was about, but we had a couple of addresses we wanted to check on. 14 15 When you say couple, do you mean three? Q. 16 Α. Two. 17 Q. Two. And in those specific cases, what was 18 the process that you followed? 19 Α. We asked them to -- if they were aware that 20 the meter was leaking, and they weren't aware that -- one 21 of them they went out and found the meter and tested it. 22 0. And when you say they, you mean Laclede? 23 Yes. Α. 24 0. And then Laclede called you back with the 25 results of the test?

Page 47 1 Α. Yes. 2 Q. And can you tell me in each case what the 3 results were? One of them they couldn't find a leak. 4 Α. One 5 of them they tested the meter to five pounds before it -they found a very small leak. It's five -- you can 6 7 normally operate at about a quarter pound, and they had to 8 test it to five pounds before they found a small leak. 9 0. So at normal operating pressure, there 10 wasn't a leak? Right. 11 Α. 12 And those are the only calls that you're 0. 13 aware of from the public about AMR installation? 14 Well, I mean, we've had some other Α. Yes. 15 calls, people who said that they didn't want the -- they didn't want Celnet to -- no. There's been other calls. 16 17 Q. Well, let's stick -- I'm asking you about 18 safety of the AMR installation, not people not wanting it, 19 so --20 Α. No, not wanting -- they wanted Laclede to 21 install them. 22 Q. Right. In terms of calls about problems 23 caused by it being placed in there, you've not received 24 calls other than the two you just talked about? 25 Specifically we've heard allegations from Α.

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1	the I believe in the letters from the representatives
2	of the ex parte comments that there were leakage caused.
3	We called and contacted Laclede once we saw those to say,
4	in general, have you do you have any that you know of,
5	these severe leaks they're talking about? And there was
6	no they have no knowledge of those severe leaks,
7	allegations there are leaks.
8	Q. Is AMR has AMR been addressed in any of
9	the meetings that you've gone to, either regional or
10	annual of the NAPSR?
11	A. Not that I'm aware of. We discuss the fact
12	that a lot of people are going to AMR, going to using the
13	method.
14	Q. Any discussions about how effective it's
15	been at the NAPSR meetings?
16	A. Effective how?
17	Q. Well, in terms of streamlining the billing
18	process.
19	A. Just the method of
20	Q. Saving money, time?
21	A. Not having the AMR process of not having
22	to go read individual meters and that kind of thing.
23	Q. Any discussion of safety problems connected
24	with AMR installation at the NAPSR meetings?
25	A. No. There would be no regulatory

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1	requirements addressing change out of meters, so it's not
2	really a safety issue, as far as safety regulations
3	requiring change out of meters.
4	Q. So has there been any I guess I want to
5	make sure, has there been any anecdotal discussions with
б	these other folks that you were at these NASR meetings
7	with about experiences they've had with AMR installation
8	in their states related to safety?
9	A. I haven't heard any problems, no.
10	Q. Just briefly going back to the pilot
11	program, AMR program, do you know how extensive that was,
12	Laclede's pilot program on AMR?
13	A. No.
14	Q. Do you know if it was?
15	A. I probably did at one time, but I don't
16	remember.
17	Q. Okay. So you might have
18	MR. ZUCKER: I'm sorry. Are you talking
19	about the pilot program with AMR or the pilot program with
20	the Grunsky method?
21	MS. MARTIN: AMR.
22	MR. ZUCKER: Did we establish a pilot
23	program with AMR?
24	MS. MARTIN: He testified there was a
25	THE WITNESS: I testified that I believe

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Page 50 there was some kind of pilot program. That was many years 1 2 ago, so I --3 MR. FRANSON: The answer to your question, 4 Rick, is yes, we did establish that. 5 MR. ZUCKER: All right. Thank you. BY MS. MARTIN: 6 7 Well, do you recall whether or not you ο. 8 would have received any sort of written report of the 9 success of the pilot program or the test program of AMR? 10I don't believe I received -- that's not to Α. 11 say, again, that another section or another department may 12 not have seen a report. 13 You didn't get one? **Q**. 14Α. No. 15 And you didn't see one? ο. 16 Α. I may have -- in meetings we had I may have 17 seen one, but I don't have one, no. 18 0. But do you recall whether there was one 19 that you did see? 20 Α. NO. 21 At the time that AMR -- that Laclede began ο. 22 implementing AMR on a system-wide basis, did the Staff 23 have any concerns about its safety? 24 Specifically installing AMR on a meter? Α. 25 Yeah. Q.

Page 51 We were aware of, again, that this had 1 Α. No. 2 been done in other utilities and what had happened there, 3 so we weren't concerned that another utility was going to 4 install AMR using a similar method, no. 5 Had you received reports from other Q. 6 utilities that they were experiencing any problems with 7 AMR? 8 Α. What kind of problems? 9 Q. Well, I guess I was going to have you tell 10 me when you received reports and then ask you what sort of 11 problems. 12 The only problems that I was aware of that Α. 13 was installation of the AMRs were installed to -- the index was installed too tightly and they were not 14 15 functioning correctly. It wasn't any safety problems. Ιt 16 was more of a -- they had to go back out and reinstall the index. 17 18 Q. And --19 Α. That wasn't Laclede. That was with another 20 utility. 21 Is the index the thing that gives you the Q. 22 reading? 23 The index is the plastic little box that Α. sits on the outside of the meter that has the dials. 24 25 Okay. But you weren't receiving reports Q.

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Page 52 from other utilities that there were leaks associated with 1 2 the actual installation or other problems associated with 3 the actual installation of the device? 4 Α. I received no reports like that. 5 Q. No safety complaints; is that correct? 6 Α. Correct. 7 If a meter was damaged at the time of Q. 8 installation of AMR, would that be reported by the utility 9 to the PSC? 10 Not necessarily. Α. 11 And under what circumstances would that be Q. 12 reported? 13 Α. If it met one of the criteria of an 14 accident or if they felt we were having all these 15 discussions about AMR that they would want just to tell us about that, possibly. 16 17 Q. Okay. So the mandatory reporting would be 18 if it fell within one of those incidents we talked about 19 earlier? 20 Α. Yes. 21 Otherwise it would be a voluntary report by Q. 22 Laclede --23 Right. Α. 24 -- because they think you should know; is Q. 25 that correct?

1	A. Yeah. Page 53
2	Q. Does the PSC does Laclede provide
3	reports or other sorts of written documents to the PSC
4	relating to complaints it might be receiving from its
5	customers in regard to AMR installation?
6	A. Not that I'm aware of.
7	Q. So if a customer complains to Laclede, oh,
8	I hate this, it's not working right, come out here and fix
9	it, you're not going to get here at the PSC any sort of
10	report of that?
11	A. Not unless we have a case going that's
12	asking those specific questions.
13	Q. Okay. In the absence of that sort of
14	thing, that kind of a complaint's not passed on to the PSC
15	by Laclede?
16	A. Not to me, no.
17	Q. Okay. Does the PSC impose any training or
1.8	qualification requirements on the individuals who install
19	and service residential gas meters?
20	A. Say that again.
21	Q. Does the PSC impose any training or
22	qualification requirements on individuals who install and
23	service residential gas meters?
24	A. Yes, there's operator qualification
25	requirements.
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1	Q. Are those contained in the regulations?
2	A. Yes.
3	Q. Does the PSC I'm sorry. Other than
4	what's in the regulations, are there any rules or
5	otherwise from the PSC specifically discussing training
6	and qualification for individuals who install and service
7	residential gas meters?
8	A. There's the old operator requirements if
9	you're working with gas, like changing out a meter, those
10	kind of things, there's certain requirements, certain
11	tasks you have to be trained to do.
12	Q. No, but is all of that contained in the
13	regulations?
14	A. If you're asking if there's individual
15	requirements for the meter change-out people, for people
16	who do leak investigations, no. There's a generic
17	basically operator qualification.
18	Q. Okay. So more what I was trying to get to
19	is whether or not you've got those sort of qualification
20	requirements in a place other than in the regulations or
21	if they're all set forth in the
22	A. The regulations set forth the operator is
23	supposed to develop an operator qualification plan that
24	would set out the specific covered actions that would have
25	to be that would be covered by the rule and the

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Page 55 1 training that those individuals would have to have. 2 Q. Okay. 3 Α. So the rule requires that the company make 4 a plan and a program, and then that program becomes what 5 they have to train people on. So the rule requires to 6 make the plan, then the plan is a training method. 7 Q. Okay. And does the PSC review the plan 8 that the company --9 Α. Yes. 10 -- develops? Q . 11 Can the company change the plan without PSC 12 approval? 13 Α. They have -- any change to the plan have to 14 be given to us in a specified amount of time. 15 And then the PSC reviews those changes? Q. 16 Α. Right. 17 Does the PSC or has the PSC been monitoring Q. 18 the field installation of the AMR devices by Laclede? 19 Α. Have we been, like, going out in the field 20 and looking at them? 21 0. Yes. 22 Α. No. 23 ο. Do you receive any reports from Laclede 24 updating the PSC as to the status of the implementation of 25 AMR?

1	Α.	Page 56 Over the course of time, we've had some
2	reports of how	far along they are, but I don't look at
3	those on a regu	lar basis. That's not to say that someone
4	else in the Com	mission would not be getting those.
5	Q.	But you're not. And those reports you just
6	mentioned, are	those generally we've now finished X amount
7	in this amount	of time in this area or is there more
8	detail?	
9	Α.	Basically how many they've gotten done and
10	where they are.	
11	Q.	Do those reports indicate whether they've
12	had any problem	s with the installation of any?
13	Α.	In general, I've asked that I've asked
14	that general qu	estion about problems and there wasn't.
1.5	Q.	But it's not contained in the report?
16	Α.	There's no report necessary. Just more of
17	a phone call or	discussions. There's no formal report.
18	Q.	This isn't a written report?
19	Α.	No.
20		MR. FRANSON: When you're at a good
21	stopping point,	can we stop?
22		MS. MARTIN: We can stop right now.
23		(A BREAK WAS TAKEN.)
24	BY MS. MARTIN:	
25	Q.	After has the PSC at this time, after

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1	Page 57 some good part of the installation of AMR's been completed
2	have any safety concerns about the AMR installation?
3	A. Do we have any concerns, specific concerns
4	at this point?
5	Q. At this point.
6	A. No.
7	MR. FRANSON: Okay. I should have made
8	this clear a long time ago. There is a distinction
9	between the PSC and the PSC Staff. And when you say does
10	the PSC have some concerns as an example, that would
11	suggest maybe that the PSC has held some kind of hearings
12	and made a determination. I think every question like
13	that's going to be no. However, Mr. Leonberger represents
14	the PSC Staff, and so when he's been saying the PSC, he's
15	really meaning the PSC Staff; is that correct?
16	THE WITNESS: Yes. Sorry. I apologize.
17	MS. MARTIN: No. Because I think some of
18	the questions will sometimes say PSC or PSC Staff, and
19	then sometimes I've gotten sloppy and just said PSC. I
20	always mean PSC Staff.
21	MR. FRANSON: I should have made that
22	clear.
23	THE WITNESS: And many times, like I said
24	before, as far as the AMR, AMR is basically a
25	metering-type function, not necessarily a safety function,

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Page 58 1 so there may be other areas of the Staff, like the 2 engineering analysis section that may be doing things that 3 I'm not necessarily aware of. I'm not saying I'm speaking 4 for the whole Staff in most cases that aren't involving 5 safety. BY MS. MARTIN: 6 7 0. Now, is it your understanding that once an 8 AMR device is on a gas meter, that Laclede no longer has 9 to visit the customer home to obtain a meter reading? 10 Α. Yes. 11 0. That's the premise of AMR, correct? 12 Right. Α. 13 So Laclede no longer has to turn off gas ο. 14 service when a transfer of service is made; is that 15 correct? 16 If they're doing a transfer they would not Α. 17 have to go there to read the meter, no. 18 Because they could get their reading for 0. 19 the final bill and start -- when the new customer comes 20 in, they can get the remote read? 21 There would be no requirement from the Α. 22 safety regulations for them to go physically to the site, 23 no. 24Q. Okay. And if they're not having to turn 25 off the gas and then turn the gas back on, Laclede does

1	Page 59 not have to do a gas safety inspection at the time a new
2	customer gets their service; is that correct?
3	A. According to our regulations.
4	Q. According to your regulations. I just
5	wanted to ask you one more question about Union Exhibit 1,
6	which was the Report and Order in Case No. 95-320. You've
7	got it in front of you. On page 6 of the Order, and the
8	numbers are at the bottom left, pages 1 of 8, 2 of 8, 6 of
9	8. I'm at page 6 of 8. Actually, I think what I want is
10	the very bottom. Do you recall that in this Order the
11	Commission suggested a, what they were calling a
12	recapturing the safety inspections that were lost by the
13	change in method of meter replacement?
14	A. I'm aware of that, yes.
15	Q. Do you know whether or not Laclede has ever
16	implemented a program to recapture those lost
17	opportunities as the Commission calls it on page 6?
18	A. At the time, right about this time in
19	1997?
20	Q. I'm not sure when it was.
21	MR. FRANSON: What is the date on the
22	Order?
23	THE WITNESS: Issue date of May 13 of 1997.
24	The Staff had was talking to there was concern about
25	the leaking of the copper service lines and replacement of

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Page 60 1 the copper service lines. I think at the time Laclede was 2 replacing less than a thousand of those. So we had had a 3 very big safety concern about leaking copper service lines because of some incidents we'd had. 4 So at that time, there was a specific 5 6 program that was implemented to do inspections, but we 7 had -- the Laclede was ramping -- we were having them or 8 discussing with them doing more replacements of copper 9 service lines and doing more leak surveys over copper 10 service lines because that was a very big safety concern. So at that point a lot of their resources 11 were going to that particular issue, going from replacing 12 13 less than a thousand to replacing thousands, about the '97, '98, '99 time frame. 1415 BY MS. MARTIN: 16Q. All right. So the Order we're talking 17 about, the Commission's talking about again on page 6, 18 that as a result of the change in the way meters are going 19 to be selected for replacement, there's going to be an 20 average of 20,000 fewer meter visits. Do you see where 21 I'm looking at? It's the second full paragraph, 22 second-to-last paragraph. 23 Α. Yes. 24ο. And in this Order, they're talking about 25 finding a way to -- well, let me rephrase that.

Page 61 1 The Commission suggested that the 2 appropriate response would be to implement a program to 3 recapture those lost opportunities, do you recall that? Ι think we just talked about that. 4 5 There's discussion about recapturing those А 6 opportunities elsewhere in Laclede's safety inspection 7 program. 8 Q. Right. And so is your testimony that you 9 believe that moving the safety, the lost opportunity to 10the corrosion inspection and inspection you just talked 11 about would satisfy this? Is that --12 MR. FRANSON: Objection, that calls for a 13 legal conclusion. No. 1, you're assuming that the Commission ordered Laclede to do something. 14 15 MS. MARTIN: No. I don't mean to be 16 suggesting I think it was an Order. I think I said 17 suggestion. 18 MR. FRANSON: And, okay, moving on, then. 19 Next part of the objection is, what would satisfy this 20 would be if there was some problem with the -- with 21 Laclede not complying with a Commission Order. That would 22 be an entirely different proceeding. And I can tell you 23 that since this isn't part of the order paragraph, there 24would be a big question at best whether this was an actual 25 order of the Commission for Laclede to do something.

1	Page 62 So I guess my main objection is to the way
2	your question is phrased about would it satisfy this. So
3	I'm asking you can probably get around my objection by
4	just rephrasing the question.
5	MS. MARTIN: Yeah, let me do that.
6	BY MS. MARTIN:
7	Q. At the bottom of page 6 of the Commission's
8	Order, the Commission I certainly don't mean to be
9	suggesting that the Commission's ordering anything, but
10	they're suggesting that Laclede's the appropriate
11	response by Laclede to this variance it's granting in the
12	way it's left in this replacement, would be to recapture
13	the lost opportunities to observe and remedy potentially
14	unsafe conditions in other aspects of its safety
15	inspection program. Is that what you understood?
16	A. This said lost opportunity. It said
17	recapture lost opportunities elsewhere in the safety
18	inspection programs.
19	Q. Right. So what I'm asking what I was
20	asking then was if you knew whether or not Laclede had
21	implemented a program to recapture the lost opportunities
22	that are discussed in this Order, and you then answered
23	A. What I said was that right about that same
24	time period, the corrosion of copper service lines and
25	replacement of copper service lines became a large issue
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1	Page 63 because of incidents we'd had. So at that point there was
2	a lot more activity that Laclede was going from replacing,
3	like I said, less than 1,000 service lines to more and
4	more and more, up to where in 2000 they started replacing
5	8,000 service lines a year.
6	So they had a there's a safety
7	initiative that took a lot of man hours, a lot of work
8	both doing the annual surveys over those and doing
9	replacement. So I don't know if it specifically
10	recaptured lost opportunities for inside work, but we
11	believe because of the leaks in the number of leaks and
12	the incidents we've had, that that particular effort was
13	very important.
14	Q. I guess the question I'm asking is kind of
15	simpler. Was that corrosion upping the corrosion
16	inspection process and replacement process, was that in
17	response to this suggestion?
18	A. No.
19	Q. It was separate from that?
20	A. Yes.
21	Q. Do you know whether or not Laclede has set
22	up any other sort of inside inspection program on its own
23	voluntarily to recapture the lost opportunity to inspect
24	20,000?
25	A. Not that I'm aware of.
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1	Page 64 MS. MARTIN: Okay. That was the only
2	question I have, and I am finished.
3	MR. FRANSON: I think I'm going to be last,
4	if I've got any questions for Mr. Leonberger.
5	MR. POSTON: May I ask a clarifying
6	question? Bob's saying, no, I can't.
7	CROSS-EXAMINATION BY MR. POSTON:
8	Q. You had when you were talking about the
9	Grunsky bags earlier, there had been questions about load
10	differences?
11	A. Right.
12	Q. I just want to clarify. Were you saying
13	that a greater load could cause the Grunsky method to be
14	unsafe?
15	A. No, I didn't say that at all. I said that
16	there may be some appli I'm just not aware of the
17	specific, you know, where you at what time, what how
18	big of BTU furnace or BTU appliance could be operating,
19	but there's if you took a long time to do that method,
20	I assume there could be some depends on the amount of
21	gas and pressure in the tank. I'm not aware of the
22	specific specifications on that, no.
23	MR. POSTON: That's all.
24	THE WITNESS: I'm just saying in general,
25	that's my thought that I guess you'd want to look at those

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Page 65 1 things. MS. MARTIN: I just want to follow up to 2 3 that. REDIRECT EXAMINATION BY MS. MARTIN: 4 5 That sort of thing might be addressed in 0. 6 the literature you get? 7 Α. Right. 8 From the Grunsky company, correct? Ο. 9 Α. And I was just more familiar with how it worked, not specifically all of the -- where the cutoffs 10 11 were on certain -- when you should use them and not. 12 MR. FRANSON: Rick, I think I'm last. MR. ZUCKER: Okay. Let me just ask a few. 13 And I'm sorry if I repeat something that was already 1415 asked. 16 CROSS-EXAMINATION BY MR. ZUCKER: 17 0. Mr. Leonberger, was it your testimony that based on MGE's long-time use of the Grunsky method, that 18 19 you did not have concerns about Laclede using it? 20 Α. I was aware that the Grunsky method had been around for 50 or so years and then MGE was using it, 21 22 and I was aware that during our inspections that they were 23 saying they had not had any problems with it. So when 24another utility started to use the same type of method, it 25 didn't raise concerns, no.

1	Page 66 Q. And if you had reason to believe that the
2	Grunsky meter change method was unsafe, what would you do?
3	A. If we had knowledge of something, a
4	particular method or particular material that wasn't
5	that we believed wasn't working correctly or wasn't good,
6	we would probably ask the company not to use that, and if
7	we felt strongly that it was a bad method, we would
8	probably go to the Commission and have them order them not
9	to use it.
10	Q. With regard to AMR, do you have any idea of
11	about how many AMR units Laclede has installed to date?
12	A. To date, no. I don't know. I mean, I know
13	it's over I believe it's over 200,000, but that
14	number's quite a few months ago. I really don't know the
15	exact number to date, no.
16	Q. Okay.
17	A. I'm not getting I'm not getting a week
18	by week or, you know, day by day update on the number
19	that's being installed, no.
20	Q. And. Have you received since Laclede
21	began installing AMR devices on meters last year, have you
22	received any reports of incidents related to the
23	installation of an AMR meter?
24	A. Incident like leaking gas causing a formal
25	incident?

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	Page 67
1	Q. Yes, sir.
2	A. No.
3	Q. And if you were concerned about the safety
4	of AMR installation, what would you do?
5	A. As I stated before, when we find something
6	that the Staff believes is an unsafe method or unsafe
7	material, we would take measures to talk to the company
8	about stopping to use that. If we believed the method or
9	material was bad and they weren't voluntarily stopping to
10	use it, then we would talk to the Commission about having
11	an order to stop.
12	MR. ZUCKER: Thank you. That's all I have.
13	MR. FRANSON: A couple clarifying
14	questions, Mr. Leonberger.
15	CROSS-EXAMINATION BY MR. FRANSON:
16	Q. Let's talk about pipes in an average
17	household. Let's use a hypothetical residential customer
18	of Laclede. It's a normal three-bedroom, two-bath home,
19	we'll say 1,500 square feet, and it is set up, piped for
20	natural gas. What facilities would ordinarily be used to
21	provide service by Laclede to this customer, and where
22	does Laclede ownership and responsibility for those
23	facilities begin and end, and where would the customer
24	ownership and responsibility begin and end?
25	A. In a typical residential service, there

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1	Page 68 would be a service line come up to the house. On the high
2	pressure, there would be a regulator to reduce the
3	pressure to about a quarter of a pound, and there would be
4	a meter, and the regulatory responsibility or Laclede's
5	property ends at the outlet of that meter.
6	On a low pressure, which would be the
7	pressure in the main would be essentially the same
8	pressure that the appliances would operate at, there would
9	be a service line to the house. There would not be a
10	regulator because the pressure in the main would be the
11	same pressure the appliances operated at. There would be
12	a meter and meter set piping going on, and the same thing,
13	the Laclede property ends at the outlet of the meter.
14	Q. And that meter in most instances is outside
15	the house?
16	A. I think Laclede's Mr. Zucker could
17	say correct me if I'm wrong but I believe
18	Q. Hold on. Let's not leave it to Mr. Zucker.
19	A. I believe there's about a 60/40 split
20	between there's about 60 percent of their meters are
21	outside and 40 percent are inside, is my recollection.
22	Q. Okay. What you just talked about would
23	cover the outside meters; is that correct?
24	A. What's that?
25	Q. About where the responsibility ends,

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Page 69 1 Laclede's responsibility ends at that meter? 2 Α. Inside or outside, the responsibility of 3 Laclede would end at the outlet to the meter 4 At the outlet to the meter? ο. 5 Α. Yes. 6 Or at the meter itself? ο. 7 Α. The outlet of the meter. 8 ο. Which is connected to the meter itself? 9 Right. There's an inlet and outlet to the Α. 10 meter, where the gas comes in the meter and out of the 11 meter. 12 Tell me where more time, where does Q. 13 Laclede's --14 The outlet of the meter. Α. 15 So once the gas goes out of the meter and 0. 16 on into the house, that's the customer's responsibility? 17 Α. Right, past the outlet of the meter. 18 Q. Okay. Do you know of any regulations that 19 require, other than when the interruption -- when gas flow 20 is interrupted to a house, that requires Laclede to go in 21 and do an inspection of the inside premises? 22 Specifically Laclede in Missouri or any Α. 23 other --24 Let's talk specifically about Laclede. ο. 25 Unless the flow of gas is turned on, Α.

Page 70 there's not a requirement for them to go in and do an 1 2 inside check. 3 Any other LDCs that you are aware of? 0. No other LDCs that I know do a check on the 4 Α. inside piping unless they physically turn the gas on 5 according to our rules. 6 7 And LDC stand for local distribution 0. 8 company. Which would be municipalities and 9 Ά. 10 investor-owned companies. MR. FRANSON: The only other thing we need 11 12 to talk about, we need to talk about off the record some 13 of the things that we talked about may need to be deemed highly confidential. We can talk about that. 14 15 I don't believe I have any other guestions 16 for Mr. Leonberger. Does anybody else? 17 MS. MARTIN: I just had one. 18 FURTHER REDIRECT EXAMINATION BY MS. MARTIN: 19 0. When you were talking -- the last question 20 you asked about the LDCs, were you speaking specifically 21 about Missouri or were you speaking ~-22 What question was that? Α. 23 0. -- nationwide? 24 Whether or not the other LDCs had or 25 performed any other inside inspection other than at

Page 71 1 turn-on. 2 Α. My understanding is that our rule requires 3 the inspection at turn-on, that the federal rule doesn't 4 require that, and my understanding most -- from what I've 5 talked to my peers in other states, that they don't have a 6 requirement even at turn-on to go inside and inspect the 7 inside stuff. 8 So weren't -- the answer wasn't limited to ο. 9 Missouri utilities? 10 Α. Well, no. I asked that guestion because 11 the idea that other utilities, other states that I know of 12 don't have even the requirement to go inside when the gas 13 is turned on, so I was just trying to figure out what he 14was asking, if he was asking empirically in Missouri or 15 nationwide. 16 MR. FRANSON: Well, let's go back. I'll 17 ask that question. 18 RECROSS-EXAMINATION BY MR. FRANSON: 19 ο. Generically in Missouri, unless the flow of gas is interrupted, does -- is there any requirement that 20 21 you know of in Missouri that the gas utility go inside and 22 perform an inspection inside the customer's home? 23 Α. If the utility -- if the gas is physically 24 turned on, they have to go in and do an inspection of the 25 inside piping and appliances. On an inside meter set,
Page 72 1 there is -- there is Laclede's service line piping that 2 goes up to the meter set, there are requirements of 3 corrosion control and leakage surveys that Laclede would be required to go inside not only with -- go inside and do 4 5 a leak and inspection and do a corrosion inspection on the 6 piping that goes -- on their piping that goes to the 7 meter, but not fuel piping that goes past the meter. They 8 would be required to go inside the house on those specific 9 instances. 10 But all of those specific instances is Q. 11 either where the gas is turned on anew, meaning after some 12 time of interruption, or where the gas flow is 13 interrupted? 14 Α. The requirement for doing an No. 15 inspection on customer-owned piping is only when the gas 16 flow is turned on. There's a requirement to do periodic 17 leakage surveys and corrosion inspection of company-owned 18 piping, Laclede piping before the meters, not when it's

19 turned on, but on a periodic basis, no matter if it's 20 turned on or not.

21 MR. FRANSON: Okay. I don't have any 22 further questions.

23MS. MARTIN:No, I don't either.24MR. POSTON:No.25MR. FRANSON:Rick?

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1	Page 73 MR. ZUCKER: No more for me.
2	THE REPORTER: Read and sign?
3	MR. FRANSON: Yes. We will waive
4	presentment, but not signature, yes.
. 5	THE REPORTER: Rick, this is the court
6	reporter. Did you want a copy?
7	MR. ZUCKER: Please. Do you do e-tran?
8	THE REPORTER: Yes.
9	MR. ZUCKER: That will be fine.
10	THE REPORTER: Robert, did you want a copy?
11	MR. FRANSON: Yes, I do, but I want the
12	mini.
13	THE REPORTER: Mark, did you want a copy?
14	MR. POSTON: Please.
1.5	(PRESENTMENT WAIVED; SIGNATURE REQUESTED.)
16	(PRESENTMENT WAIVED; SIGNATORE REQUESTED.)
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<ul> <li>STATE OF MISSOURI ) <ul> <li>SS.</li> </ul> </li> <li>COUNTY OF COLE )</li> </ul> <li>COUNTY OF COLE )</li> <li>I, KELLENE K. FEDDERSEN, RPR, CSR, CCR, and Notary Public within and for the State of Missouri, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me to the best of my ability and thereafter reduced to typewriting under my direction; that I am neither counsel for, related to, nor employed by any of the parties to the action to which this deposition was taken, and further that I am not a relative or employee of any attorney or counsel employed by the parties thereto, nor financially or otherwise interested in the outcome of the action.</li> <li>KELLENE K. FEDDERSEN, RPR, CSR, CCR Notary Public, State of Missouri (Commissioned in Cole County) My commission expires 3/28/09.</li>	1	Page 74 CERTIFICATE OF REPORTER
<ul> <li>COUNTY OF COLE )</li> <li>I, KELLENE K. FEDDERSEN, RPR, CSR, CCR, and</li> <li>Notary Public within and for the State of Missouri, do</li> <li>hereby certify that the witness whose testimony appears in</li> <li>the foregoing deposition was duly sworn by me; that the</li> <li>testimony of said witness was taken by me to the best of</li> <li>my ability and thereafter reduced to typewriting under my</li> <li>direction; that I am neither counsel for, related to, nor</li> <li>employed by any of the parties to the action to which this</li> <li>deposition was taken, and further that I am not a relative</li> <li>or employee of any attorney or counsel employed by the</li> <li>parties thereto, nor financially or otherwise interested</li> <li>in the outcome of the action.</li> <li>KELLENE K. FEDDERSEN, RPR, CSR, CCR</li> <li>Notary Public, State of Missouri</li> <li>(Commission expires 3/28/09.</li> </ul>	2	STATE OF MISSOURI )
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2 4 Commission # 05523964 My Commission Expires March 28, 2009	22	Notary Public - Notary Seal
24	23	Commission # 05523984
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				Page 7
Α	31:16 38:25 42:19	anew 72:11	62:14	56:9 57:24
ability 74:10	44:20 46:4 59:9	<b>annual 5</b> :22,23	assigned 76:6,7,9	basis 34:17 50:22
able 33:25 36:18	address 14:6,11	11:21,23 12:3,6	76:10,12,13,15,16	56:3 72:19
about 5:4 7:10 8:14	45:6	34:11 41:22,23	76:18,19,21,22	became 62:25
12:20,21 14:21	addressed 15:11,12	42:13 45:25 48:10	assistant 2:18 4:20	become 36:20 41:13
16:8,11 17:6	15:14 48:8 65:5	63:8	associated 40:12	becomes 55:4
19:17,18,25 20:13	addresses 41:15	annually 6:18,18	52:1,2	before 1:13 5:7
20:24 21:4,25	44:1,23,24 45:1,3	43:7	association 5:15,19	17:1 20:16 21:11
22:4,18 23:13,16	46:14	another 8:7 13:20	6:3,4,10	27:19,20 29:17
23:17 24:8,10	addressing 49:1	18:23 29:13 31:3	associations 6:2	31:8,20 36:1
27:12,12,19,23	Administration	32:16,18 39:12	assume 35:6 64:20	41:21 47:5,8
29:5,19 30:7,17	42:20	50:11,11 51:3,19	assuming 61:13	57:24 67:5 72:18
30:21,23 31:1,5	advantage 43:14	65:24	attached 2:25 27:25	76:3 77:13
31:19 33:5,7	afraid 18:1	answer 19:20,25	attend 6:14,17	began 50:21 66:21
34:18,21 35:19,24	after 22:21 24:12	22:23 23:8,20	attended 5:24	begin 67:23,24
36:22 37:4 38:1,5	24:20 31:20 32:4	25:19 34:8 42:17	attention 8:3 77:16	being 4:1 25:10
38:6,8,15 39:12	56:25,25 72:11	45:7 50:3 71:8	attorney 2:3,8	26:13 29:5 31:18
40:8,10,16,24	again 50:11 51:1	answered 25:23	74:14	32:5 35:13,20
41:10,12,17,21,22	53:20 60:17	62:22	audit 39:5,6,10,11	47:23 66:19
43:19,24 44:3,8	ago 36:16 50:2 57:8	answering 19:23	40:18	believe 14:1 27:22
44:19,21,24 45:14	66:14	23:16	audits 39:2,8	30:24 33:6 35:24
46:9,10,13 47:7	agree 15:2	anybody 38:1 70:16	authority 10:7	40:6 48:1 49:25
-	ahead 45:9	anything 16:17	14:24	50:10 61:9 63:11
47:13,17,22,24	alert 19:14	20:24 25:5 29:1	automated 4:11	66:1,13 68:17,19
48:5,14 49:7,19	allegation 45:21	40:15,20 43:24	36:14 40:9	70:15
50:23 52:15,16,18	46:6	62:9	available 9:16,18	believed 66:5 67:8
56:14 57:2 59:5	allegations 41:14	apologize 57:16	28:12	believes 67:6
59:18,24 60:3,13	45:22 47:25 48:7	appears 74:7	Avenue 2:5	belong 5:12
60:17,17,24 61:4	allow 17:8	appli 64:16	average 60:20	Ben 30:17,23,24
61:5,11 62:2,23	allowed 18:24	appliance 10:2	67:16	31:1,1
64:8,9 65:19	along 56:2	64:18	avoid 20:23	benefits 39:17
66:11 67:3,8,10	already 65:14	appliances 32:9	aware 4:5 18:20	Ben's 30:18
67:16 68:3,19,20	always 5:9,10 57:20	68:8,11 71:25	20:21 21:11 24:22	besides 18:18
68:22,25 69:24	AmerenUE 40:4,7	application 35:15		r
70:12,12,13,14,20	amount 35:17,20	applications 35:11	31:21,23 32:17	<b>best</b> 61:24 74:9
70:21	40:25 41:23 55:14	1	34:5 36:9,15,20 40:14,19 41:13	<b>between</b> 1:10 21:22
above-entitled 1:20	56:6,7 64:20	appropriate 61:2	1 '	57:9 68:20
above-ground 13:5		62:10	46:19,20 47:13	<b>big</b> 60:3,10 61:24
above-referenced	AMR 35:24,25 36:2	approval 19:10	48:11 51:1,12	64:18
77:10	36:14,20,23 37:9	36:24 37:10,12 55:12	53:6 58:3 59:14	<b>bill 58:19</b>
abreast 21:16	37:14,21 38:1,2,7		63:25 64:16,21	<b>billing</b> 48:17
absence 28:24	38:15,18,25 39:2	approximately	65:20,22 70:3	Bo 38:12
53:13	39:9,18,21,25	31:15 area 4:21 5:11 31:8	<b>a.m</b> 1:10	<b>Bob's</b> 64:6
accident 52:14	40:3 43:20,22	4	B	both 23:21 63:8
accordance 24:11	46:8,10 47:13,18	31:8,10,15 39:1		bottom 27:7 59:8
according 59:3,4	48:8,8,12,21,24	46:6 56:7	back 24:6 38:4,24	59:10 62:7
70:6	49:7,11,12,19,21	areas 58:1	46:24 49:10 51:16	Boulevard 1:16
acronym 5:18	49:23 50:9,21,22	arose 37:19	58:25 71:16	77:1
action 74:12,16	50:24 51:4,7 52:8	around 62:3 65:21	<b>bad</b> 66:7 67:9	box 2:13,19 51:23
actions 10:9,20	52:15 53:5 55:18	asked 34:7 44:8,23	<b>bag</b> 4:10 15:9 17:20	77:6
54:24	55:25 57:2,24,24	46:19 56:13,13	17:24 18:3,6 19:1	break 41:24 56:23
activity 63:2	58:8,11 66:10,11	65:15 70:20 71:10	20:19 27:2 28:12	breakdown 12:15
actual 10:6 37:1	66:21,23 67:4	asking 20:24 23:12	29:18 30:3,20	12:21
44:19 52:2,3	AMRs 51:13	23:12 25:11 44:20	31:6,16 34:11	breakup 7:1
61:24	AMR's 57:1	47:17 53:12 54:14	bags 64:9	briefly 49:10
	L Appluois 19.02 59.0	F 62-7 10 20 62-14	based 22:23 65:18	brochure 28:2
actually 15:7 16:7	analysis 38:23 58:2	62:3,19,20 63:14		
actually 15:7 16:7 17:18 26:11,15	and/or 75:7 77:13 anecdotal 49:5	71:14,14 <b>aspects</b> 5:21 39:9	<b>basically</b> 6:17 33:24 34:7 40:5 54:17	broke 11:7 broken 6:21



Page 79

				Fage 7
BTU 64:18,18	24:13,20 28:3	60:17 62:7,9	copy 26:17,20 73:6	customer-side
Building 45:5	32:4 33:25 35:10	companies 23:13	73:10,13 77:10,12	24:25 25:24
burst 10:16	37:9,20 49:1,3	70:10	correct 4:7,12 9:7	cutoffs 65:10
business 35:22	55:11,13 59:13	company 1:6 2:7,9	9:17 15:24 16:6	<b></b>
	60:18 66:2 76:6,7	10:8,13,21,21	16:10,14,24 17:9	D
CC	76:9,10,12,13,15	11:12 13:17,17	22:6 24:4 25:1	<b>D</b> 3:1
C 2:1,4	76:16,18,19,21,22	55:3,8,11 65:8	26:1,6 32:14 35:2	damage 7:23,25
calculate 4:18	changed 15:15	66:6 67:7 70:8	37:13 39:25 40:17	9:23 40:24 41:11
call 8:5,6,10 13:15	16:24 18:17 24:1	75:24 76:2	41:1,12 43:10,11	42:4,22
15:17 29:24 44:10	24:16 37:16	company-owned	45:15 52:5,6,25	damaged 52:7
45:13 46:9 56:17	changes 14:13	72:17	57:15 58:11,15	dash 39:4
called 43:21,23	55:15 75:7,10	complained 43:23	59:2 65:8 68:17	data 3:8 11:19 27:1
45:11 46:24 48:3	76:4 77:13	complains 53:7	68:23 75:9,13	27:10 28:4,25
calling 45:19 59:11	change-out 18:21	complaint 20:13,16	corrections 77:13	29:10,15
calls 8:4,12 34:17	54:15	43:18,20 44:19	correctly 51:15	date 59:21,23 66:11
43:9 44:11 45:18	change-outs 15:11	complaints 4:6	66:5	66:12,15 77:15
47:12,15,16,22,24	changing 14:12	41:18 43:17 46:9	corrosion 5:16,19	dates 28:16
59:17 61:12	16:4 17:20 18:24	52:5 53:4	5:20,21 34:25	day 1:9,11 36:17
came 43:21	19:5 21:6 37:14	complaint's 53:14	42:3,21 61:10	66:18,18 75:14
captured 11:12	54:9	completed 57:1	62:24 63:15,15	dealing 16:4
careful 19:18	check 46:14 70:2,4	complying 61:21	72:3,5,17	<b>Dear</b> 77:9
Carondelet 2:5	checked 24:20 32:5	composite 11:17	costs 39:17	death 7:22 11:11
case 1:5 3:7 8:25	44:2	concern 59:24 60:3	counsel 2:11,13,17	decided 19:13
9:1,20 15:13,23	checking 32:3	60:10	2:18 74:11,14	decision 20:19
16:1,3,6,22 17:2,6	circumstances	concerned 51:3	counterparts 7:3	22:16
20:5 27:1,2 36:2	52:11	67:3	County 1:13,19	declare 75:12
37:19 39:3,4,5,9	cite 42:16	concerns 22:18	74:3,19 75:3	deemed 70:13
39:15 40:13,14,18	City 1:12,16 2:14	50:23 57:2,3,3,10	couple 7:9 35:23	defect 42:4
47:2 53:11 59:6	2:20 77:2,7	65:19,25	44:1,23,25 45:3	definition 8:17
77:11	clarify 64:12	conclusion 61:13	46:13,15 67:13	department 5:8
cases 46:17 58:4	clarifying 64:5	conditions 62:14	course 45:24 46:2	10:19 11:4,4
catalog 28:2	67:13	confidential 70:14	56:1	42:20 43:6 50:11
categories 12:16	Class 12:20,20,20	confused 31:3	court 73:5	depend 42:11
40:23 42:5,6,13	13:6,8	conjunction 19:15	courtesy 8:5	depends 45:21 46:6
cause 1:20 7:25	<b>clear</b> 10:18 11:6	connected 48:23	cover 68:23	64:20
9:21 42:21 64:13	57:8,22	69:8	covered 6:20 29:14	deponent 76:4
caused 10:10 12:16	clearly 10:19 11:6	connection 4:6	54:24,25	deposition 1:8 4:6
40:24 44:2 47:23	close 27:16	15:16	covering 14:22	74:8,13 75:6,8,11
48:2	<b>Code</b> 7:15	<b>consider</b> 8:4 39:2	criteria 8:7,7,8 41:7	
causing 66:24	Cole 1:13,19 74:3	considered 13:6	52:13	describe 18:9,14
cc 77:21	74:19 75:3	consumer 43:13	crossing 33:8	22:9
CCR 1:15 74:5,18	come 8:3 19:9,13	44:10,12 45:12	Cross-Examination	described 8:20
76:24 77:19	32:19,21 37:3	46:10,12	3:2,3,4 64:7 65:16	describing 28:3
Celnet 40:5,22,22	53:8 68:1	contacted 48:3	67:15	description 28:1,16
47:16	comes 15:8 58:19	contain 28:14	<b>CSR</b> 1:15 74:5,18	descriptive 28:15
central 6:24,25	69:10	contained 12:6 54:1	76:24 77:19	desired 77:13
certain 7:18 9:15	comments 48:2	54:12 56:15	customer 10:15	detail 56:8
12:19 19:4 37:15	commission 1:2,12	continuing 14:19	11:13 13:12 24:3	detailed 30:9
37:15 40:25 54:10 54:10 65:11	2:16 4:15,24 8:24	15:3	25:5,12,20 43:19	details 31:12 detected 12:13
certainly 14:20,22	9:5 10:8 21:3	continuous 34:17	45:18 53:7 58:9	
62:8	56:4 59:11,17	control 34:25 72:3	58:19 59:2 67:17	determination
CERTIFICATE	61:1,14,21,25 62:8 66:8 67:10	conversation 30:13 31:3	67:21,23	57:12 develop 54:23
74:1	74:20 75:19 77:5	conversations 30:1	customers 53:5 customer's 10:3	develop 54:25 develops 55:10
certify 74:7 75:5	commissioned 1:19	30:4,12	69:16 71:22	device 37:9 40:22
change 14:14 17:3	74:19	<b>copper</b> 59:25 60:1,3	customer-owned	43:22 52:3 58:8
17:4 18:11 22:19	Commission's	60:8,9 62:24,25	72:15	<b>devices</b> 55:18 66:21
17.7 10.11 22.19		00.0,7 02.24,20	/2.13	

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:15 70:11 71:16 :18 72:21,25 :3,11 77:5,9 17:11 8:12 :20 16:23 22:8 :20 26:15,16 :5 34:13,24 :24 37:18 38:1 :14 41:19 42:18 :9,17,18 47:13 :25 48:1 51:5 :1 53:4 54:5 :23 58:21 60:12 :2,19 65:8 71:4 t 59:7 72:7 50:21 tion 57:25,25 tioning 51:15 ace 10:2 64:18 aces 32:9 her 3:4 70:18
:3,11 77:5,9         17:11 8:12         :20 16:23 22:8         :20 26:15,16         :5 34:13,24         :24 37:18 38:1         :14 41:19 42:18         :9,17,18 47:13         :25 48:1 51:5         :1 53:4 54:5         :23 58:21 60:12         :2,19 65:8 71:4         t 59:7         72:7         50:21         tion 57:25,25         tioning 51:15         ace 10:2 64:18         aces 32:9
17:11 8:12 :20 16:23 22:8 :20 26:15,16 :5 34:13,24 :24 37:18 38:1 :14 41:19 42:18 :9,17,18 47:13 :25 48:1 51:5 :1 53:4 54:5 :23 58:21 60:12 :2,19 65:8 71:4 t 59:7 72:7 60:21 tion 57:25,25 tioning 51:15 ace 10:2 64:18 aces 32:9
:20 16:23 22:8 :20 26:15,16 :5 34:13,24 :24 37:18 38:1 :14 41:19 42:18 :9,17,18 47:13 :25 48:1 51:5 :1 53:4 54:5 :23 58:21 60:12 :2,19 65:8 71:4 t 59:7 72:7 60:21 tion 57:25,25 :tioning 51:15 ace 10:2 64:18 aces 32:9
:20 26:15,16 :5 34:13,24 :24 37:18 38:1 :14 41:19 42:18 :9,17,18 47:13 :25 48:1 51:5 :1 53:4 54:5 :23 58:21 60:12 :2,19 65:8 71:4 t 59:7 72:7 60:21 tion 57:25,25 :tioning 51:15 ace 10:2 64:18 aces 32:9
25 34:13,24 24 37:18 38:1 24 37:18 38:1 21 41:19 42:18 29,17,18 47:13 25 48:1 51:5 23 58:21 60:12 2,19 65:8 71:4 t 59:7 72:7 60:21 tion 57:25,25 ctioning 51:15 ace 10:2 64:18 aces 32:9
:24 37:18 38:1 :14 41:19 42:18 :9,17,18 47:13 :25 48:1 51:5 :1 53:4 54:5 :23 58:21 60:12 :2,19 65:8 71:4 t 59:7 72:7 50:21 tion 57:25,25 :tioning 51:15 ace 10:2 64:18 aces 32:9
:14 41:19 42:18 :9,17,18 47:13 :25 48:1 51:5 :1 53:4 54:5 :23 58:21 60:12 :2,19 65:8 71:4 t 59:7 72:7 50:21 tion 57:25,25 :tioning 51:15 ace 10:2 64:18 aces 32:9
:9,17,18 47:13 :25 48:1 51:5 :1 53:4 54:5 :23 58:21 60:12 :2,19 65:8 71:4 t 59:7 72:7 50:21 tion 57:25,25 :tioning 51:15 ace 10:2 64:18 aces 32:9
:25 48:1 51:5 :1 53:4 54:5 :23 58:21 60:12 :2,19 65:8 71:4 t 59:7 72:7 60:21 tion 57:25,25 tioning 51:15 ace 10:2 64:18 aces 32:9
:1 53:4 54:5 :23 58:21 60:12 :2,19 65:8 71:4 t 59:7 72:7 60:21 tion 57:25,25 tioning 51:15 ace 10:2 64:18 aces 32:9
:23 58:21 60:12 :2,19 65:8 71:4 t 59:7 72:7 60:21 tion 57:25,25 :tioning 51:15 ace 10:2 64:18 aces 32:9
:2,19 65:8 71:4 t 59:7 72:7 60:21 tion 57:25,25 tioning 51:15 ace 10:2 64:18 aces 32:9
t 59:7 72:7 50:21 tion 57:25,25 tioning 51:15 ace 10:2 64:18 aces 32:9
72:7 50:21 tion 57:25,25 tioning 51:15 ace 10:2 64:18 aces 32:9
50:21 tion 57:25,25 tioning 51:15 ace 10:2 64:18 aces 32:9
tion 57:25,25 tioning 51:15 ace 10:2 64:18 aces 32:9
tioning 51:15 ace 10:2 64:18 aces 32:9
tioning 51:15 ace 10:2 64:18 aces 32:9
ace 10:2 64:18 aces 32:9
her 3·4 70·18
<b>U</b> I 2.7 70.10
:22 74:13
<u>G</u>
1:6 2:7,9 4:20
23,24 5:1,9,10
13 6:1 7:10,11
11,24 8:1 9:24
:1,2 11:11,12
:2,9 13:11,11
:14,16,20 14:5
:6,8,12,12
:13 17:20 18:4
:12,16,17,24,24
5 24:2,3,5,11
:15,18,24,25
:2,8,25 32:8,9
:12,14,18 33:4
:22 34:19 35:20
5:14,21 39:12,13
:14,24,25 40:21
:2,3,23 42:1,14
:18,22 53:19,23
:7,9 58:8,13,25
:25 59:1 64:21
5:24 67:20 69:10
:15,19,25 70:5
:12,20,21,23
2:11,12,15 75:24
b:2
er 43:15
e 8:8
2006-0313 1:5
2006-0390 1:5
eral 2:18 27:14
):7 45:17 48:4

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				rage o
56:13,14 64:24	32:4 34:11 35:1,4	hypothetically	40:25	21:7,10,19,22,23
generally 44:21	49:20 64:9,13	40:21 44:18	<b>inlet</b> 69:9	22:2 29:18 38:18
56:6	65:8,18,20 66:2		inquired 27:11	44:4
generic 54:16	Grunsky's 23:22	l	inquiry 27:13 28:6	investigations 11:6
Generically 71:19	35:13	idea 66:10 71:11	inside 10:20 13:18	21:4 54:16
gets 59:2	guess 15:17 20:23	IDENTIFICATI	24:7 31:17 63:10	investigators 11:4
getting 20:23 56:4	23:13 25:11 26:21	15:20 26:10	63:22 68:21 69:2	investor-owned
66:17,17	37:2 43:9 49:4	identified 33:15	69:21 70:2,5,25	70:10
give 15:17 22:11	51:9 62:1 63:14	34:3	71:6,7,12,21,22	involve 11:11
26:7,12 45:14	64:25	implement 36:13,20		
given 31:12 35:22	guys 22:7 23:6	38:2,7 61:2	71:25,25 72:4,4,8	involved 8:5,13
40:14 55:14	guys 22.7 25.0	implementation	inspect 4:24 63:23 71:6	16:4
gives 51:21	H.	18:15 31:9 38:1		involves 4:10,11
go 13:18 23:2 34:10	HAMMOND 2:4	39:21 55:24	inspection 13:18,19	7:21,22,22
	handed 15:22 26:13		13:20 24:3,7 25:3	involving 58:4
34:22 36:1 38:4		implemented 59:16	25:5,8,13,17,20	issue 14:11 49:2
38:25 45:9 46:5	hanging 16:14	60:6 62:21	25:25 46:5 59:1	59:23 60:12 62:25
48:22 51:16 58:17	happen 11:10	implementing	61:6,10,10 62:15	issues 5:13 16:4
58:22 66:8 69:20	happened 10:25	27:17 30:20 50:22	62:18 63:16,22	33:22 34:18 37:18
70:171:6,12,16	11:5 51:2	implications 37:3,4	69:21 70:25 71:3	1
71:21,24 72:4,4,8	hate 53:8	37:5,11	71:22,24 72:5,5	
goes 69:15 72:2,6,6	having 18:12 38:6	important 63:13	72:15,17	Janine 2:3 77:21
72:7	48:21,21 52:14	impose 53:17,21	inspections 13:12	<b>January</b> 27:11,16
going 15:7 16:7,10	58:24 60:7 67:10	inadvertently 14:23	14:8,9 24:25	36:19
16:15 19:14,17	75:10	incident 7:10,25	25:11 45:25 59:12	Jefferson 1:12,16
20:8,15 21:1,3,15	Hazard 42:19	8:16,17,18,22,23	60:6 65:22	2:14,20 77:2,7
21:25 22:17 23:11	hazards 14:7,7	9:10,12,17 10:16	inspector 5:7	JENNIFER 2:18
23:15,20 26:7,11	head 38:12	66:24,25	install 47:21 51:4	job 5:4
27:23 33:7,21	hear 23:14 41:10,17	incidents 7:11,18	53:18,22 54:6	July 1:10 77:4,10
34:1,6,15 35:23	43:19	7:19 8:19 11:10	installation 46:11	jurisdiction 10:6
36:8 37:14 42:16	heard 17:2 47:25	52:18 60:4 63:1	47:13,18 48:24	just 6:25 8:8,14,20
45:25 46:8 48:12	49:9	63:12 66:22	49:7 51:13 52:2,3	11:1,17 12:13,24
48:12 49:10 51:3	hearings 57:11	incorporate 46:1	52:8 53:5 55:18	14:13,18 15:8,17
51:9 53:9,11	<b>HEINTZ</b> 2:18	index 3:6 37:1,2	56:12 57:1,2	16:6,14 17:24
55:19 57:13 60:12	held 23:4 27:20	51:14,17,21,23	66:23 67:4	18:10 20:23,25
60:12,18,19 63:2	57:11	indicate 12:12	installed 51:13,14	21:18 23:6 25:18
64:3 68:12	high 68:1	56:11 77:13	66:11,19	27:14 28:11 29:1
gone 31:16 48:9	highly 70:14	indicated 33:4,14	installing 50:24	29:5,7,16 30:10
good 56:20 57:1	him 16:13,14 19:23	76:4	66:21	32:6,23 33:2,8
66:5	23:16 30:16 31:3	indicates 27:10	instances 68:14	34:15 36:19,22
gotten 56:9 57:19	hold 6:10 9:12	indicating 28:21	72:9,10	37:7,8 38:4 41:10
Government 7:7	68:18	indications 11:8	INSTRUCTIONS	41:21 42:1,6 44:6
GO-95-320 3:7	home 10:3,15 13:19	individual 27:4	2:22,24	44:21,22 45:2
15:24	14:9 25:13,16	48:22 54:14	interchangeably	46:3 47:24 48:19
granting 62:11	58:9 67:18 71:22	individually 11:18	18:2	49:10 52:15 56:5
greater 7:24 64:13	hospitalization 7:22	individuals 30:4	interested 74:15	56:16 57:19 59:4
group 40:10	hotline 43:12 46:10	53:18,22 54:6	international 5:19	61:4,10 62:4
Grunsky 4:10 15:9	46:12	55:1	Internet 28:11,19	64:12,16,24 65:2
17:20,21,24,24	hours 1:10 63:7	informal 10:23	interpret 16:13	65:9,13 68:22
18:2,3,5,9,16,18	house 35:22 68:1,9	21:10,23,24	interrupted 69:20	70:17 71:13
18:20,25 19:1,9	68:15 69:16,20 72:8	information 12:6	71:20 72:13	<u> </u>
19:13 20:8,13,16	household 67:17	19:19,24 20:3,4	interruption 69:19	
20:19 21:5 22:5,9 22:16 23:9 24:1	houses 32:3	23:13,15 27:5,12	72:12 invoc 45:25	K 1:15 74:5,18 76:24 77:19
24:10,11,20,23	HUD 34:18	27:14 28:15,15,21 29:2,5,7,19 33:12	inves 45:25	keep 18:24
25:10 27:2,12,18	hurt 8:2	45:14	investigated 10:17	keeping 21:15
	hypothetical 44:21	45:14 initiative 63:7	investigation 8:25 9:25 10:22,24	Kellene 1:15 74:5
				, wentere (.))/4 )
28:3,12 29:18 30:3,20 31:6,16	67:17	injury 7:21 11:11	11:9 20:11,18	74:18 76:24 77:19

MIDWEST LITIGATION SERVICES Phone: 1.800.280.DEPO(3376) Page 81

				1 age 02
KF/Robert 75:23	Laclede's 15:13	letting 21:15 32:24	Louis 2:5,10 45:5	11:8 29:20 30:7
kind 16:14 42:4	20:13,19 30:20	let's 17:19 19:12	low 68:6	30:25 31:2,2,3
48:22 50:1 51:8	49:12 61:6 62:10	38:4 47:17 67:16		37:4,11 40:13,17
53:14 54:10 57:11	68:4,16 69:1,13	67:17 68:18 69:24	M	46:3,4 50:11,16
63:14	72:1	71:16	M 2:3	50:16 58:1,2
knew 20:15 23:6	large 37:6 62:25	life 40:25 41:11	made 39:1 57:7,12	59:23 64:5,16
27:19 62:20	LARREW 2:4	lights 31:18 32:7,8	57:21 58:14 75:7	70:13
know 8:14 12:18,19	last 23:8 28:20	33:21 34:1,6	75:10 76:4	maybe 10:15 11:16
13:24 16:5 17:13	33:16 64:3 65:12	like 6:6 8:5 9:19	Madison 1:12 2:14	22:25 42:9 46:1
17:15 18:5,9,22	66:21 70:19	11:18 13:5 21:11	2:19 77:6	57:11
19:3 20:2 21:2,15	Lauber 30:14,15	21:20 28:16 32:11	magnitude 12:19	McReynolds 30:17
21:19 22:7 23:8	Law 2:3,8	34:1,1,18 40:17	mailings 34:15	mean 11:11 14:13
24:9,9,19 25:4	LDC 70:7	40:19 41:1,7 43:1	main 62:1 68:7,10	16:12 18:2,10
27:22 29:18 32:2	LDCs 70:3,4,20,24	45:6 52:4 54:9	maintain 22:7,12	21:20,24 25:19
32:4,13,24 33:2,8	leading 15:9	55:19 57:12,23	maintained 8:20	
33:10,17 34:8,22	leads 28:13	58:1 63:3 66:24	make 9:24 16:11	29:12,12,20 33:18
	leak 8:1 9:25 12:16			33:19,20 34:4
35:3 38:9,23		limitations 35:4	17:25 21:22 29:12	35:9 41:4,9,19
39:20,23 40:2,3	12:17 13:6 33:22	limited 71:8	35:12,18 37:7	43:3 46:15,22
42:14 44:12 45:12	40:21 41:2,3,4	line 12:8 43:13 68:1	49:5 55:3,6	47:14 57:20 61:15
48:4 49:11,14	42:3,3,4,7,11,14	68:972:176:5,7,8	malfunctioned 10:9	62.8 66:12
52:24 59:15 63:9	44:2 45:18 46:5	76:10,11,13,14,16	<b>man</b> 63:7	meaning 29:16
63:21 64:17 66:12	47:4,6,8,10 54:16	76:17,19,20,22	management 39:5,6	57:15 72:11
66:12,14,18 69:18	60:9 72:5	lines 12:7 59:25	39:7,11 40:18	measures 67:7
70:4 71:11,21	leakage 48:2 72:3	60:1,3,9,10 62:24	manager 4:20	media 8:5,13
knowledge 10:5	72:17	62:25 63:3,5	managers 6:6	meet 7:2 8:8,17,19
13:11 14:21 15:7	leaking 46:20 59:25	list 28:2,16 30:1	mandatory 52:17	meeting 6:19
20:25 23:14,21	60:3 66:24	listed 28:4 30:5	many 50:1 56:9	meetings 5:22,23
48:6 66:3	leaks 11:12,16,17	lit 31:18	57:23 66:11	6:11,12,13,18,18
known 22:24	11:19,21 12:13,14	literature 23:23,24	Marc 2:12 77:22	34:10,16,22 48:9
knows 23:17	12:18,19,24 13:5	24:11 34:13 65:6	Mark 30:14,15	48:15,24 49:6
	41:14,23 42:1,21	Litigation 1:15 77:1	73:13	50:16
<u> </u>	48:5,6,7 52:1	little 14:19 51:23	MARKED 15:19	meets 8:6
Laclede 1:6 2:7,9	63:11,11	load 35:7,8,15,19	26:9	member 5:15
14:2,3 16:22 17:2	learn 36:13	64:9,13	marshals 11:5	memorandum 28:3
17:7,12 18:4 20:7	learned 27:17 38:5	local 1:4,20 2:2 4:7	Martin 2:3 3:2,3,4	memos 22:4
20:8 21:2,15 22:8	least 19:14	70:7 75:24 76:2	4:2 9:14 15:1,4,5	memo-type 22:1
22:15 23:9 25:13	leave 68:18	77:8	15:21 16:18,21	mentioned 42:10
25:16 27:11,12,21	leaves 14:24	long 4:16 12:10	19:21 20:1 23:5	44:22,25 45:2
28:5,6,9 30:3,16	leaving 16:14	15:2 19:22 57:8	23:18 26:17,19,21	56:6
30:21,24 31:6,8	led 10:15	64:19	26:24 33:11 36:3	met 52:13
36:13,20,24 37:8	left 59:8 62:12	longer 58:8,13	36:6,10,11 42:24	meter 4:11 13:5
38:1,6,15,25 39:2	legal 16:15 61:13	long-time 65:18	44:20 45:2,7,10	14:14 15:10,15
39:15,21 40:4	Leonberger 1:8 4:1	look 28:14 56:2	49:21,24 50:6	17:8 18:11,17,24
41:3 44:3,8,11	4:4,14 14:20	64:25	56:22,24 57:17	22:18 24:12,20
45:5,13,14 46:1,9	19:20 23:14 42:15	looked 28:10,11,14	58:6 60:15 61:15	28:3 32:4 33:25
46:22,24 47:20	57:13 64:4 65:17	39:9 41:15 44:1	62:5,6 64:1 65:2,4	36:14 40:9 42:7
48:3 50:21 51:19	67:14 70:16 75:5	45:3	70:17,18 72:23	43:22 44:3,6,7
52:22 53:2,7,15	75:17,23 76:2	looking 46:2,2	77:15,21	46:20,21 47:5
55:18,23 58:8,13	77:10	55:20 60:21	material 42:3,22	50:24 51:24 52:7
58:25 59:15 60:1	less 35:16,16 60:2	looks 39:8 40:18	66:4 67:7,9	54:9,15 58:8,9,17
60:7 61:14,21,25	60:13 63:3	43:1	materials 12:8	59:13 60:20 66:2
62:11,20 63:2,21	let 9:21 15:17 16:5	loss 40:25 41:11	42:19	66:23 68:4,5,12
65:19 66:11,20	16:18 20:6,7,11	lost 12:8 59:12,16	Matisziw 38:12	68:12,13,14 69:1
67:18,21,22 68:13	21:2,18 33:8,10	61:3,9 62:13,16	matter 1:3 13:1	69:3,4,6,7,8,10,10
69:3,20,22,24	41:21 60:25 62:5	62:17,21 63:10,23	16:15 21:14 37:23	69:11,14,15,17
72:3,18 75:24	65:13	lot 8:12 48:12 60:11	72:19 77:16	71:25 72:2,7,7
76:2 77:8	letters 48:1	63:2,7,7	may 9:15 10:12,22	metering-type

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MIDWEST LITIGATION SERVICES Phone: 1.800.280.DEPO(3376)

Page 82

57:25	2:20 31:7 77:2,7	59:1	23:25 24:8,18,23	organization 6:6,23
meters 14:12 16:4	money 48:20	newsletters 34:18	25:24 26:4,23,25	34:14,21,25
16:23 17:4,9,20	monitoring 55:17	34:23,24	27:4 28:24 29:2	organizations 5:13
19:5 21:6 24:1,16	months 66:14	next 28:13 61:19	30:1 31:5,24	5:25
31:15 35:10 36:14	more 7:23 16:16	nobody's 8:2	32:23 34:21 35:23	original 2:25 77:11
36:21,23 37:9,20	21:14 46:8 51:16	normal 45:19 46:2	37:17,25 38:9	other 4:10 5:25 7:3
39:25 41:15 48:22	54:18 56:7,16	47:9 67:18	42:25 43:8 44:10	11:7 12:5 15:13
49:1,3 53:19,23	59:5 60:8,9 63:2,3	normally 11:3	45:11,22 46:8	18:4,18,23 19:16
54:7 60:18 66:21	63:4,4 65:9 69:12	24:19 47:7	49:17 51:25 52:17	19:18,25 23:12,13
68:20,23 72:18	73:1	Nos 1:5	53:13.17 54:18	24:8 25:5,10,12
meter's 35:17	most 13:8,24 35:11	notarized 77:15	55:2,7 57:7 58:24	25:20,21 28:8,15
			· · · · · · · · · · · · · · · · · · ·	
method 4:10 16:23	58:4 68:14 71:4	notary 1:18 74:6,19	61:18 64:1 65:13	29:20 30:6,24,25
17:2,8,12,16,21	mostly 11:1	75:18 77:13	66:16 68:22 69:18	32:12 33:22 34:21
17:21,24 18:2,3,6	move 17:19	notes 30:9	72:21	37:11,18 39:16,24
18:9,11,16,19,20	moving 61:9,18	nothing 10:20	old 54:8	40:14,17 41:22
18:23 19:1,9,13	much 18:15	27:24	Olive 2:9	42:22,23 45:22
20:8,13,16 21:5,5	municipal 5:1	Notice 1:21	once 48:3 58:7	47:14,16,24 49:6
22:5,10,18 23:10	municipalities 70:9	noticed 4:5	69:15	51:2,5 52:1,2 53:3
24:1,10,20,23	municipality 13:17	notification 7:17	one 4:9 5:20,24 8:7	54:3,20 58:1
25:10 27:13,18	must 19:24	10:4	10:9 37:17,18	62:14 63:22 69:19
28:3,12,17,22	myself 6:7	notified 9:22	39:1,1,9,15 42:10	69:23 70:3,4,11
29:4 30:3,20 32:4	M-a-t-i-s-z-i-w	notify 10:5,5	43:4 46:20 47:4,4	70:15,24,25,25
32:13,19 33:14,15	38:12,13	number 8:25 11:17	49:15 50:13,15,17	71:5,11,11
33:21,23,24 34:4		12:7,14 15:13	50:17,18 52:13,18	otherwise 19:25
34:11 35:4 48:13	Ν	30:21 63:11 66:15	59:5 70:17	23:15 52:21 54:5
48:19 49:20 51:4	N 2:1 3:1	66:18	ones 8:19 24:18	74:15
55:6 59:13 64:13	NACE 5:18 34:22	numbers 59:8	40:2	ourselves 46:4
64:19 65:18,20,24	name 4:3 30:22	number's 66:14	only 11:16 15:7	out 10:25 11:5
66:2,4,7 67:6,8	75:11	Builloci 5 00.14	25:24 26:4 28:4	12:22 14:12,24
methods 18:18	named 45:6	0	32:12 39:14 41:11	15:15 20:7 23:22
	r	object 16:10,16		
19:16	names 30:2,8		47:12 51:12 64:1	26:13 29:19 33:22
MGE 19:1,12 22:8	NAPSR 6:9,10,21	objection 14:19,20	70:11 72:4,15	33:25 34:1,6
22:24 23:7,9,17	34:10 48:10,15,24	15:3 19:18 61:12	open 8:24,25 9:6	35:10,17 46:21
33:13 40:3,7	NASR 49:6	61:19 62:1,3	operate 47:7 68:8	49:1,3 51:16 53:8
65:21	nasty 43:22	objections 19:23	operated 68:11	54:9,24 55:19
MGE's 65:18	Nat 31:7	observe 62:13	operating 10:9 47:9	69:10,15 71:13
<b>mid</b> 38:24	national 5:15,19	obtain 58:9	64:18	outcome 74:16
Midwest 1:15 77:1	6:2,4,12,18	occasion 46:9	operational 32:7	outlet 68:5,13 69:3
might 29:13 33:1	nationwide 70:23	occasionally 43:9	operations 30:16	69:4,7,9,14,17
49:17 53:4 65:5	71:15	occurred 40:22	39:8 42:23	outside 42:4,22
75:8	natural 31:11,15	odor 43:22	operator 8:10 53:24	51:24 68:14,21,23
Miles 12:7	42:21 67:20	off 18:12,16 23:2	54:8,17,22,23	69:2
mini 73:12	nature 34:16	24:2,5 37:2 58:13	operators 8:13	over 9:23 33:6,8
minor 13:1,8	necessarily 13:7	58:25 70:12	opportunities 59:17	36:15 38:3,4
minute 44:17	35:18 41:8 52:10	office 2:11 7:4 12:1	61:3,6 62:13,17	40:24 43:21 56:1
mirror 6:25	57:25 58:3	offices 1:11	62:21 63:10	60:9 63:8 66:13
Missouri 1:1,11,13	necessary 56:16	officially 11:15	opportunity 61:9	66:13
1:18,19 4:15 7:12	75:8	OFF-THE-REC	62:16 63:23	overall 11:16,19
13:25 18:5,22	need 7:19 14:18	23:4	opposed 35:13	12:13
-	18:14 19:9 23:14	often 6:16 8:4	order 3:7 15:23	Overseeing 4:23
10.731.1115		VICE 0.10 0.4		own 12:2 21:4
19:7 31:11,15		oh 52.7		
32:12,13,19 33:4	24:2,24,24 37:10	oh 53:7	59:6,7,10,22	
32:12,13,19 33:4 39:24 45:5 69:22	24:2,24,24 37:10 37:12 70:11,12,13	okay 5:6,25 7:6	60:16,24 61:16,21	63:22
32:12,13,19 33:4 39:24 45:5 69:22 70:21 71:9,14,19	24:2,24,24 37:10 37:12 70:11,12,13 needed 37:19	okay 5:6,25 7:6 8:11,15 9:3,15	60:16,24 61:16,21 61:23,25 62:8,22	63:22 owned 10:1,7,13
32:12,13,19 33:4 39:24 45:5 69:22 70:21 71:9,14,19 71:21 74:2,6,19	24:2,24,24 37:10 37:12 70:11,12,13 needed 37:19 needs 36:24	okay 5:6,25 7:6 8:11,15 9:3,15 10:11,14,23 11:19	60:16,24 61:16,21 61:23,25 62:8,22 66:8 67:11	63:22 owned 10:1,7,13
32:12,13,19 33:4 39:24 45:5 69:22 70:21 71:9,14,19 71:21 74:2,6,19 75:2 77:5	24:2,24,24 37:10 37:12 70:11,12,13 needed 37:19 needs 36:24 neither 74:11	okay 5:6,25 7:6 8:11,15 9:3,15 10:11,14,23 11:19 13:3 15:16 17:1,6	60:16,24 61:16,21 61:23,25 62:8,22 66:8 67:11 ordered 61:14	63:22 owned 10:1,7,13 ownership 67:22,24
32:12,13,19 33:4 39:24 45:5 69:22 70:21 71:9,14,19 71:21 74:2,6,19	24:2,24,24 37:10 37:12 70:11,12,13 needed 37:19 needs 36:24	okay 5:6,25 7:6 8:11,15 9:3,15 10:11,14,23 11:19	60:16,24 61:16,21 61:23,25 62:8,22 66:8 67:11	63:22

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MIDWEST LITIGATION SERVICES Phone: 1.800.280.DEPO(3376) Page 83

·······	,		<b>.</b>	Page 84
page 27:8 59:7,9,17	39:22 49:10,12,19	problem 8:2-10:1	57:15,18,18,19,20	really 17:11 27:24
60:17 62:7 75:1	49:19,22 50:1,9	10:14 16:20 20:24	PSC's 27:1	31:22 36:15 49:2
76:5,7,8,10,11,13	pipe 10:15,20 12:7	23:1,8,12,16 35:7	public 1:2,11,18	57:15 66:14
76:14,16,17,19,20	piped 67:19	35:11,18 44:7	2:11,13,16 4:15	reason 66:1 76:6,7
76:22 77:11,13,15	<b>pipeline</b> 6:3,5,6,22	45:13 61:20	9:6,16,18 19:19	76:9,10,12,13,15
pages 12:11,11 59:8	6:23 7:5 10:1,13	problems 28:21,25	19:22,24 20:2,4	76:16,18,19,21,22
paragraph 60:21	12:1 42:19	29:4 31:17 33:15	20:25 22:8,9	recall 16:1,3 34:12
60:22 61:23	pipelines 5:21	33:21 34:1,3,8	23:15 33:8 41:19	38:5,16 50:7,18
parenthetical 29:11	pipes 67:16	40:12 43:10 47:22	43:1,9,14 47:13	59:10 61:3
part 1:20 20:5	piping 10:7-13:5	48:23 49:9 51:6,8	74:6,19 75:18	recapture 59:16
25:14 57:1 61:19	68:12 70:5 71:25	51:11,12,15 52:2	77:5,14	61:3 62:12,17,21
61:23	72:1,6,6,7,15,18	56:12,14 65:23	pursuant 1:21	63:23
parte 48:2	72:18	procedure 23:21	put 14:18 22:4 30:7	recaptured 63:10
particular 11:7	place 54:20	proceeding 61:22	30:22 40:22	recapturing 59:12
13:12 39:10 42:11	placed 47:23	process 15:10 17:19	putting 37:2	61:5
60:12 63:12 66:4	Plaintiff 15:22	18:8,8 19:5 23:21	<b>p.m</b> 1:10	receive 7:11 43:18
66:4	Plaintiff's 26:8	45:17,19 46:18	<b>P.O</b> 2:13,19 77:6	55:23
particularly 37:5	plan 38:2,6 54:23	48:18,21 63:16,16		received 28:5 46:10
parties 74:12,15	55:4,6,6,7,11,13	produced 1:9	Q	47:23 50:8,10
parts 9:15	plastic 51:23	product 28:2	qualification 53:18	51:5,10 52:4
passed 53:14	please 4:3 42:16	professional 5:12	53:22,24 54:6,17	66:20,22
past 23:7 69:17	73:7,14 77:10,12	5:25	54:19,23	receiving 51:25
72:7	77:15	program 4:12,23	qualifications 8:19	53:4
patent 28:16	point 32:1 56:21	27:23 31:6,13,19	<b>quarter</b> 47:7 68:3	recently 17:11
path 45:23	57:4,5 60:11 63:1	31:20,25 32:3	question 16:10,16	recognize 26:25
peers 71:5	police 11:4	39:21,22 49:11,11	16:19 19:23 24:8	recollection 30:10
penalty 75:12	position 4:19,22	49:12,19,19,23	28:13 33:7,17	68:21
people 7:2,5,6 30:2	possible 33:1	50:1,9,9 55:4,4	34:7 41:10 45:8	recommendation
38:11,24 43:23	possibly 10:18 33:3	59:16 60:6 61:2,7	50:3 56:14 57:12	38:25 39:1
47:15,18 48:12	35:7,16 52:16	62:15,21 63:22	59:5 61:24 62:2,4	record 23:3 70:12
54:15,15 55:5	Poston 2:12 3:2	programs 20:21	63:14 64:2,6	records 22:3,12
per 11:20 12:14	64:5,7,23 72:24	21:12,13 40:9	70:19,22 71:10,17	46:3,6
percent 68:20,21	73:14 77:22	62:18	<b>questions</b> 7:10 15:9	Recross-Examina
perform 13:11 21:3	potential 14:7	project 22:17 37:6	16:7,12,13 35:24	3:571:18
71:22	potentially 62:13	38:18	53:12 57:18 64:4	Redirect 3:3,4 65:4
performed 22:24	pound 47:7 68:3	property 7:23,25	64:9 67:14 70:15	70:18
23:9 25:6 70:25	pounds 47:5,8	9:23 11:2,14	72:22	<b>reduce</b> 68:2
performing 22:17	practice 22:10	40:24 41:12 68:5	quickly 35:10	reduced 74:10
perhaps 45:23,24	precipitated 27:13	68:13	quite 40:4 66:14	referred 17:20
period 62:24	prefer 17:23	provide 14:5 36:17	quote 8:9 15:8	regard 20:6 53:5
periodic 72:16,19	premise 58:11	40:8 53:2 67:21		66:10
perjury 75:12	premises 69:21	provided 27:5 28:9	R	regardless 11:13
person 38:11	prepare 39:16	38:14	<b>R</b> 2:1	region 6:20,20,24
personnel 10:10	prepared 29:23	provisions 21:21	raise 65:25	6:25
30:24 31:6 33:13	present 4:19	<b>PSC</b> 5:3 7:10,11 8:3	ramping 60:7	regional 6:12,17,19
phone 34:16 56:17	presentment 2:23	8:21 9:22 11:15	rate 37:2,4,5,5	34:10 48:9
77:3	73:4,15	14:6 19:10,14,14	40:13,18	regions 6:21,22,24
phrased 62:2	pressure 24:12,19	20:10 22:4 32:20	<b>Re</b> 76:2 77:8	regular 56:3
physically 13:14,16	47:9 64:21 68:2,3	32:21,24 36:25	read 28:1 48:22	regulated 4:25
24:6 25:2 58:22	68:6,7,8,10,11	38:17 39:7,16	58:17,20 73:2	25:14
70:5 71:23	pressure-checked	40:8 41:5,8 43:10	75:676:5,7,8,10	regulation 7:15
<b>piece</b> 11:7	24:12	43:23 44:10,11,21	76:11,13,14,16,17	14:17 19:4 42:16
pilot 20:21 21:12,13	prior 18:15,19,25	52:9 53:2,3,9,14	76:19,20,22 77:12	regulations 7:15
22:17 27:23 31:5	20:12 77:15	53:17,21 54:3,5	reading 4:11 36:14	12:20 13:10 14:11
31:7,8,17,19,20	private 20:25 33:9	55:7,11,15,17,17	37:10 40:9 51:22	14:15,21,22 21:21
31:25 32:3,7,8	probably 30:11	55:24 56:25 57:9	58:9,18 76:3	25:19,25 26:2,3
33:21 34:1,5	49:15 62:3 66:6,8	57:9,10,11,14,14	real 19:18 20:9	43:1 49:2 54:1,4

I

Į.

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÷

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į

1

1

				Page 85
54:13,20,22 58:22	representatives 6:3	21:17 23:19 25:4	31:17 32:6 46:5	sloppy 57:19
59:3,4 69:18	6:5 48:1	25:15 28:23 29:9	50:15,19 60:20	small 13:5 47:6,8
regulator 24.12,15	represents 57:13	32:10 37:22,24	seen 50:12,17	smaller 11.10,11
24:19 68:2,10	request 19:10 27:1	39:14 42:8 43:3	select 16:23 17:3.9	some 20:19 30:19
regulatory 10:7	27:10 28:4 29:10	47:11,22 50:5	selected 37:21	30:23 40:13 41:13
48:25 68:4	29:16	52:23 53:8 55:16	60:19	41:14,14 47:14
reinstall 51:16	requested 2:23	56:22 58:12 59:18	send 11:25,25	50:1 56:1 57:1,10
related 6:1 49:8	16:22 73:15	60:16 61:8 62:19	Senior 2:13,17	57:11,17 60:4
66:22 74:11	requesting 17:7	62:23 64:11 65:7	sent 36:2	61:20 64:16,20
relating 53:4	requests 3:8 36:2	69:9,17	sentence 28:20	70:12 72:11
relative 74:13	require 13:10 22:11	Robert 1:8 2:17 4:1	33:16,19	somebody 33:1
remain 22:21	25:20 26:3 69:19	4:4 73:10 75:5,17	separate 4:6 12:2,3	43:21,21 45:11
remedy 62:13	71:4	76:2 77:5,10	12:21 37:23 63:19	someone 44:13,14
remember 46:13	required 8:6 13:7	<b>RPR</b> 1:15 74:5,18	served 36:7	56:3
49:16	13:17,18,21,22	76:24 77:19	service 1:2,11 2:16	something 8:2,5,22
remind 19:24	24:6.7 25:3 37:15	rule 54:25 55:3,5	4:15 12:7,8 35:17	11:8,18 14:24
remote 58:20	40:13 43:6 72:4,8	71:2.3	53:19,23 54:6	15:11 21:21 24:9
render 75:9	requirement 14:13	rules 54:4 70:6	58:14,14 59:2,25	36:24 37:10 40:18
repaired 11:16,17	58.21 70:1 71.6		60:1,3,9,10 62:24	40:25 42:25 44:15
11:22	71:12,20 72:14,16	Ş	62:25 63:3,5	45:5 61:14,25
repeat 65:14	requirements 49:1	<b>S</b> 2:1	67:21,25 68:1,9	65:14 66:3 67:5
rephrase 16:5	53:18,22,25 54:8	safe 21:5	72:1 77:5	sometimes 37:3
60:25	54:10,15,20 72:2	safety 4:20,23 5:1,9	services 1:15 43:13	57:18,19
rephrasing 62:4	requires 7:16.17	5:10,14 6:1,3,5,6	77:1	somewhere 28:11
replaced 37:20	19:4 55:3,5 69:20	6:22,23 7:5 12:1	set 13:5 15:9 17:3	soon 26:21
replacement 17:9	71:2	13:12,20 14:8	54:21,22,24 63:21	sorry 9:25 16:9,15
37:21 59:13,25	requiring 7:21 49:3	22:18 24:3,25	67:19 68:12 71:25	26:16,22 32:18
60:19 62:12,25	research 29:13	25:8,25 34:19	72:2	49:18 54:3 57:16
63:9,16	residential 35:11,15	40:10,11 42:19	severe 44:2 48:5,6	65:14
replacements 60:8	53:19,23 54:7	47:18 48:23 49:2	sheet 76:1 77:11,13	sort 7:16 15:8 18:23
replaces 25:6,7	67:17,25	49:2,8 50:23	77:15	20:18 21:4 25:5
replacing 60:2,12	resources 60:11	51:15 52:5 57:2	SHINNERS 2:4	25:20 29:13 34:23
60:13 63:2,4	respond 41:4	57:25 58:5,22	short 6:8	45:9 50:8 51:10
report 3:7 8:16,22	response 26:18,19	59:1,12 60:3,10	side 10:15 11:2,13	53:9,13 54:19
8:23,23 9:2,13,17	27:10 28:5,19,21	61:6,9 62:14,17	11:14 13:12 24:3	63:22 65:5
11:21,23 12:3,6	29:11 61:2 62:11	63:6 67:3	25:6,12,20 30:16	sorts 12:5 33:22
12:10,12 13:7	63:17	sale 13:19 14:9	30:20	43:16,17 45:22
15:23 40:15 41:22	responses 9:19 27:1	25:13,16	sign 73:2 77:13	53:3
41:23 42:14 50:8	27:5 35:25 36:6	same 5:2 6:22 23:10	signature 2:22,23	speak 14:23 43:19
50:12 52:21 53:10	responsibility 30:19	23:12 31:1 40:4,5	27:7 73:4,15 75:1	speaking 58:3
56:15,16,17,18	67:22,24 68:4,25	62:23 65:24 68:7	77:11,13,15	70:20,21
59:6	69:1,2,16	68:11,12 75:9	significant 8:9 9:23	special 46:4
reported 7:20 11:15	result 9:23 37:21	sampling 17:8	similar 51:4	specific 8:8 10:12
12:18 40:23 41:3	60:18	satisfy 61:11,19	simpler 63:15	31:22 42:16,18
41:4,5,8,24 52:8	results 31:25 41:10	62:2	since 5:4 17:14	45:6 46:17 53:12
52:12	46:25 47:3	save 26:12	43:20 61:23 66:20	54:24 57:3 60:5
reporter 15:20	return 77:15	Saving 48:20	Sincerely 77:17	64:17,22 72:8,10
26:10 73:2,5,6,8	review 11:25 28:8	saw 48:3	sir 67:1	specifically 18:13
73:10,13 74:1	55:7	saying 57:14 58:3	site 58:22	37:13 40:10 43:19
76:24	reviews 55:15	64:6,12,24 65:23	sites 28:14	44:7,23 46:8
reporting 7:10,16	Rick 2:8 26:12,17	says 31:2	sits 51:24	47:25 50:24 54:5
43:10 52:17	44:18 45:4 50:4	second 42:10 60:21	situation 9:24 13:19	63:9 65:10 69:22
reports 7:11 8:18	65:12 72:25 73:5	second-to-last	44:22	69:24 70:20
9:10 40:8 51:5,10	77:21	60:22	situations 20:20	specifications 64:22
51.25 52:4 53:3	<b>right</b> 7:8 12:25 13:2	section 39:7 50:11	34:5	specifics 23:16
55:23 56:2,5,11	13:9,15,16,23	58:2	size 35:7,9	specified 55:14
66:22	14:3,4 15:1,6	see 16:19 28:11,22	slash 28:2	spelled 23:21

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<del></del>	<b>F</b>	<b></b>		
split 68:19	subject 14:25 23:15	35:19 39:12 44:8	65:12 68:16	turning 24:2
square 67:19	43:20	44:18,19 48:5	though 10:12 38:5	turn-on 14:9 25:9
ss 74:2 75:2	subjects 14:23	49:18 59:24 60:16	thought 30:8 64:25	25:12,21 71:1,3,6
St 2:5,10 45:5	30:25	60:17,24 64:8	thousand 60:2,13	turn-ons 13:15 25:9
staff 2:16 3:8 7:17	subscribe 75:11	70:19	thousands 22:25,25	two 4:6 12:11 46:16
8:23,23 9:10,12	subscribing 76:3	tank 64:21	60:13	46:17 47:24
9:17,22 22:4,16	substance 75:8	tariff 37:13,15,16	three 12:11 46:15	two-bath 67:18
22:17 26:15,15,16	success 33:14 50:9	tasks 54:1]	three-bedroom	type 19:4 65:24
27:11,21 28:8	successful 33:24	technicians 5:20	67:18	types 12:8
29:13,23 30:2	successfully 29:6	technology 40:5	through 18:13	typewriting 74:10
36:2,12 37:5	35:5	TELEPHONE 2:7	41:18	typical 67:25
38:17,19 39:1,16	suggest 16:11 57:11	tell 15:6 20:25	tightly 51:14	typical 07.25
39:19 40:19 50:22	suggested 59:11	45:13 47:2 51:9	time 5:3 13:20 17:1	U
57:9,14,15,18,20	61:1	43.13 47.2 51.9 52:15 61:22 69:12		unaccounted-for
			17:1 20:12 21:2	12:9
58:1,4 59:24 67:6	suggesting 61:16	ten 22:24 23:7 33:5	22:15 27:16 30:22	
stand 70:7	62:9,10	33:6	31:1 35:4,8,17	under 10:7 52:11
start 19:12,13,15,15	suggestion 61:17	tens 22:25	36:18 44:5 48:20	74:10 75:12
20:19 21:3 22:16	63:17	terminology 17:23	49:15 50:21 52:7	understand 16:6
32:23 58:19	Suite 1:16 2:5,14	terms 9:24 47:22	55:14 56:1,7,25	23:25 24:14 37:7
started 29:17 31:9	77:1	48:17	57:8 59:1,18,18	understanding
63:4 65:24	summer 35:13	test 39:20 44:3	60:1,5,14 62:24	31:14 32:6 35:6
state 1:1,13,18 4:3	summertime 35:16	46:25 47:8 50:9	64:17,19 69:12	58:771:2,4
4.25 6.6 7:12,15	superintendent	tested 44:6 46:21	72:12	understood 62:15
26:2,4 33:13 74:2	30:15	47:5	times 8:12 13:13	undertaken 29:13
74:6,19 75:2	supervisor's 5:4	testified 4:1 34:22	46:1 57:23	<b>Union</b> 15:18,19,22
stated 29:3 67:5	supposed 54:23	49:24,25	timing 15:10	20:12,16 26:8,9
statement 16:11	supposedly 44:2	testifying 14:21	title 30:18	26:16 59:5
states 6:25 7:1,3	sure 20:9 24:14	testimony 61:8	today 22:21	Union's 27:1
28:19 49:8 71:5	29:12 30:18,23	65:17 74:7,9	together 22:4	units 66:11
71:11	35:10 36:5 37:7	Thank 50:5 67:12	told 31:5,19,24	unless 8:6 19:19
statistical 17:8	43:25 44:16 49:5	77:16	tracking 31:22	53:11 69:25 70:5
statistics 12:5 14:5	59:20	their 6:25 10:15,16	traditional 18:21	71:19
22:8 40:8	surveys 60:9 63:8	11:6 37:8,13 38:1	train 55:5	unsafe 62:14 64:14
status 55:24	72:3,17	38:2,6 39:25 40:8	trained 54:11	66:2 67:6,6
statute 14:16 15:11	sworn 1:9 4:1 74:8	49:8 58:18 59:2	training 53:17,21	until 17:11,11
15:12,14 17:3	system 36:14,24	60:11 68:20 72:6	54:5 55:1,6	update 66:18
19:4	system's 40:16	themselves 14:23	transcript 77:12	updating 55:24
statutes 14:22	system-wide 36:13	thereon 75:10	transfer 36:23 37:1	upping 63:15
step 18:13	50:22	thereto 74:15 76:4	58:14,16	use 17:8 18:1,15,19
stick 47:17	T	they'd 33:20	Transportation	19:8 20:13 21:19
still 17:12,16 31:18		thing 6:8 48:22	42:20 43:7	22:9 23:21 32:19
32:7	take 37:8 67:7 taken 56:23 74:9,13	51:21 53:14 65:5	trial 77:15	65:11,18,24 66:6
stop 23:2 56:21,22		68:12 70:11	trouble 26:12	66:9 67:8,10,17
67:11 stopping 56:21 67:8	77:10 tokes 42:14	things 9:19 11:14	true 22:21 75:9,13	used 18:19 22:22
67:9	takes 43:14	30:7,22,23 32:11	Truman 1:16 77:1	24:1,21 25:10
stove 10:16	taking 37:1 talk 11:3 12:20	34:1,16 37:15,16	try 46:4	29:6,15,16 31:16
streamlining 48:17	32:20,21 37:3	37:17 40:17 54:10 58:2 65:1 70:13	trying 20:23 25:18 33:19 41:9 54:18	35:5,13 37:14 40:5 67:20
Street 1:12 2:9,14	67:7,10,16 69:24	think 17:11 19:17	71:13	uses 32:13
2:19 77:6	70:12,12,14	21:19 23:6,8,11	<b>TURCOTTE</b> 2:4	uses 52.15 using 16:23 17:2,13
strike 9:21	talked 27:23 30:8,9	25:18,21 27:19	turn 18:12 24:24	17:14,16 18:5,20
strongly 66:7	30:23 31:1 40:24	28:10 31:21,23	58:13,24,25 70:5	18:23 19:1,13,15
stuck 43:21	41:12,22 47:24	36:15 37:17 38:24	turned 13:14,16	19:15 20:8,15,19
CONTRACT (C) 44 I	-	1	18:16 24:5,6 25:2	22:16 24:10 32:2
studies 21.4 20.11	52:18 61:4 10	1 1917 4 77 44 77		
studies 21:4 29:11 29:14.15.16	52:18 61:4,10	39:2,14,22 44:22		1
29:14,15,16	68:22 70:13 71:5	46:12 52:24 57:12	28:20 43:6 69:25	33:2,5,14,15,18
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Page 87

				Page 87
51:4 65:19,21	56:14 66:4,5,5	63:7,10	59:5.8 61:13	6
USW 1:4,20 2:2 4:7	71:8	worked 30:3 65:10	1,000 63:3	<b>6</b> 59:7,8,9,17 60:17
75:24 76:2 77:8	way 12:22 20:12	working 40:16 53:8	<b>1,500</b> 67:19	62:7 77:10
utilities 4:24,25 5:1	23:25 37:14 60:18	54:9 66:5	<b>10</b> 19:2	
7:11 11:20 13:11	60:25 62:1,12	works 18:9 40:12	10,000 7:24	6th 1:9
13:11,24 14:5	week 66:17,18	wouldn't 13:6 20:4	100 31:15 42:1	<b>6:00</b> 1:10
15:13 18:4,20,23	well 7:4 10:14 13:4	22:3 29:14,23	<b>11-6</b> 1:4,20 2:2 4:7	<b>60</b> 68:20
19:8,19,25 25:6	26:21 27:16 38:17	32:21 35:1,18	75:24 76:2 77:8	<b>60/40</b> 68:19
		41:7 42:7 46:3	<b>12</b> 19:2	<b>63101</b> 2:10
39:13,14,24 43:17	40:11,11,16 41:2		<b>12</b> 19.2 <b>123</b> 45:5	63105 2:5
51:2,6 52:1 71:9	41:13 44:20 47:14	write 9:1,1		<b>64</b> 3:2
71:11	47:17 48:17 50:7	written 21:21 22:3	<b>129</b> 6:25	<b>65</b> 3:3,3
utility 8:1 10:2 11:2	51:9 60:25 71:10	29:19,21 34:23	13 59:23	<b>650</b> 2:14
11:14 12:2 14:12	71:16	39:17 50:8 53:3	15 3:7	65102 2:20 77:7
18:17 24:2 32:12	wells 42:22	56:18	<b>1985</b> 39:3,4	65102-2230 2:14
32:13,18 39:12,12	went 46:21	written-out 22:1	<b>1991</b> 5:5	65109 1:16 77:2
43:19 51:3,20	were 5:9 12:13	wrong 16:7,11,15	<b>1997</b> 59:19,23	<b>67</b> 3:4
52:8 65:24 71:21	18:20,23 19:14	68:17		
71:23	20:15 21:2,11,12	· - · <u>-</u> · · ·	2	7
	21:25 23:6 27:14	<u> </u>	<b>2</b> 3:8 12:20 26:8,9	<b>70</b> 3;4
V	27:15,23 28:9	<b>X</b> 3:1 56:6	26:14,25 27:8	71 3:5
v 75:24 76:2 77:8	29:3,4 30:6,7,21		29:10 59:8	7 <b>20</b> 2:9
variance 16:22 17:7	30:25 31:5,7,12	<u>Y</u>	20,000 60:20 63:24	7730 2:5
37:19 62:11	31:17,19,24,25	Yeah 16:18 24:15	200 1:12 2:5,14,19	1150 2.5
Various 38:11	32:2,3,7 33:22,25	25:18 33:24 38:20	77:6	8
verify 11:1	34:4,5,6 37:14,20	50:25 53:1 62:5	200,000 66:13	<b>8</b> 59:8,8,9,9
versa 18:3	38:14 42:1 46:19	year 11:17,18,20,22	<b>2000</b> 63:4	<b>8,000</b> 63:5
very 16:8 47:6	47:3 48:2 49:6	12:14 17:12 35:4	2006 1:10 27:11	<b>8:00</b> 1:10
59:10 60:3,10	51:1,6,13,14 52:1	35:8 42:2 63:5	75:14 77:4,10	
63:13	52:14 59:11,12	66:21	2006-0313 4:9	<b>80s</b> 38:24
VIA 2:7	60:7,12 64:8,12	years 4:18 19:2	2006-0390 4:11	9
vice 18:3	65:11,22 67:3	22:24 23:7 33:5,6	<b>2000-0390</b> 4.11 <b>207</b> 1:16 77:1	
vice 18.5 visit 58:9		36:16 38:3,4 50:1	<b>207</b> 1.10 77.1 <b>2230</b> 2:13	<b>95</b> 17:14
visit 58.9	70:19,20,21 weren't 31:21 46:20	65:21	<b>24</b> 77:4	<b>95-320</b> 17:2,7 59:6
		YOUNG 2:4	25 4:18	<b>97</b> 60:14
voluntarily 63:23	51:3,25 67:9 71:8			<b>98</b> 60:14
67:9	West 1:16 77:1	you-all 36:7 43:12	<b>26</b> 3:8	99 60:14
voluntary 52:21	we'll 8:12 15:17	45:13,19	3	
	16:19 33:10 43:19	7		
	67:19	$\frac{\mathbf{Z}}{\mathbf{Z}}$	3 12:20 30:1,5	
waive 73:3	we're 17:6 23:11	Zucker 2:8 3:3	33:16	
waived 2:23 73:15	34:15 37:18 39:12	26:13,20,23 44:17	<b>3/28/09</b> 74:20	
waiver 15:14	44:18 45:24 60:16	44:18,25 45:9	<b>314)342-0532</b> 2:10	Į
want 8:14 10:4	we've 41:15 43:25	49:18,22 50:5	<b>314)727-1015</b> 2:6	1
16:13 18:12 19:8	47:14,25 56:1,6	65:13,16 67:12	<b>3432</b> 1:16 77:1	
29:12 46:5 47:15	63:12	68:16,18 73:1,7,9	<b>360</b> 2:19 77:6	
47:16 49:4 52:15	while 5:24 22:22	77:21		
59:9 64:12,25	whoever's 45:19		4	{
65:273:6,10,11	whole 58:4	\$	4 3:2 13:6,8 28:4	ļ
73:13	winter 35:14	<b>\$10,000</b> 7:23 9:23	<b>40</b> 68:21	
wanted 7:9 32:19	witness 1:9 9:10			
36:4,13,20 37:8	16:12 26:18,22	0	5	1
37:20 44:3 46:14	42:18 49:25 57:16.	<b>01</b> 36:19	<b>50</b> 65:21	5
47:20 59:5	57:23 59:23 64:24	0313 27:1	<b>573)636-7551</b> 1:17	Į
wanting 15:7 47:18	74:7,9 76:2 77:12	<b>06</b> 27:16	77:3	
47:20	wondering 22:12		573)636-905577:3	
wasn't 11:2 20:5	word 21:19 29:11	1	573)751-3234 2:20	1
31:2,22 36:7,9	29:14,15	1 3:7 12:20 15:18	573)751-4857 2:15	<u>.</u>
47:10 51:15,19	work 7:6 30:16	15:18,19,23 27:10		Į
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## **BEFORETHEPUBLICSERVICECOMMISSION**

### **OF THE STATE OF MISSOURI**

In the Matter of the Application of Laclede Gas )
Company for a Variance From the Provisions of ) Case No. GO-95-320
4 CSR 240-10.030(19). )



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**Issue Date:** May 13, 1997

### Effective Date: May 31, 1997

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### **BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI**

In the Matter of the Application of Laclede Gas )
Company for a Variance From the Provisions of ) Case No. GO-95-320
4 CSR 240-10.030(19). )

#### **APPEARANCES**

Michael C. Pendergast, Assistant General Counsel, and Thomas M. Byrne, Associate Counsel, Laclede Gas Company, 720 Olive Street, St. Louis, Missouri 63101, for Laclede Gas Company.

William M. Franz, Franz & Franz, 720 Olive Street, Suite 2100, St. Louis, Missouri 63101, for Gas Workers Local Union 5-6 of the Oil, Chemical & Atomic Workers International, AFL-CIO.

Lewis R. Mills, Jr., Deputy Public Counsel, and Douglas E. Micheel, Deputy Public Counsel, and Michael F. Dandino, Senior Public Counsel, Office of the Public Counsel, Post Office Box 7800, Jefferson City, Missouri 65102, for the Office of the Public Counsel and the public.

Cherlyn D. McGowan, Assistant General Counsel, and John M. Himmelberg, Jr., Assistant General Counsel, Missouri Public Service Commission, Post Office Box 360, Jefferson City, Missouri 65102, for the staff of the Missouri Public Service Commission.

#### **ADMINISTRATIVE**

LAW JUDGE: Thomas H. Luckenbill, Deputy Chief.

### **REPORT AND ORDER**

#### **Procedural History**

On April 18, 1995, Laclede Gas Company (Laclede) filed an application for a variance from 4 CSR 240-10.030(19) of the Commission=s rules. This rule is designed to ensure the accuracy of gas meters. Laclede sought this variance so that it could implement a statistical sampling methodology with respect to the testing of gas meters.

On May 3, 1995, Gas Workers Local Union 5-6 of the Oil, Chemical & Atomic Workers International, AFL-CIO (Gas Workers) filed a verified application to intervene. On May 22, 1995, the Commission granted the Gas Workers= application to intervene.

On May 16, 1995, the Staff of the Missouri Public Service Commission (Staff) filed a memorandum recommending approval of Laclede=s request for a variance from the metering rule so that the statistical sampling methodology could be implemented.

On June 20, 1995, the parties participated in a prehearing conference which was held at the Commission=s offices. On June 28, 1995, the parties filed a unanimous Stipulation And Agreement. The parties agreed that Laclede=s application for variance should be granted subject to certain conditions. The parties agreed that the application should be granted on an interim basis, commencing with the effective date of the Commission order approving the Stipulation And Agreement and extending through the end of calendar year 1996, and that such agreement would be reflected by an interim tariff sheet which was attached to the Stipulation And Agreement. Furthermore, the parties reserved the right under the agreement to recommend that an evidentiary hearing be held prior to a Commission determination as to a permanent waiver and related tariff sheet.

On June 12, 1995, the Commission issued an order approving the Stipulation And Agreement, and directed Laclede to file tariff sheets implementing the variance on an interim basis. On July 26, 1995, Laclede filed interim tariff sheets in accordance with the Stipulation And Agreement, which the Commission approved on July 27, 1995.

On May 30, 1996, Laclede filed results of the meter sample testing program. On October 3, 1996, Laclede filed permanent tariff sheets to implement the statistical meter testing methodology in lieu of the methodology required by 4 CSR 240-10.030(19).

On October 31, 1996, the Gas Workers responded to Laclede=s request for a permanent variance and related tariff sheets. The Gas Workers allege that Laclede=s proposal could result in meters with an accuracy rate of only 90 percent being left in service for as long as thirty years, whereas under the Commission rule such meters could not be left in service without testing for more than ten years. The Gas Workers allege that allowance of the variance could reduce health and safety standards for customers and the general public while providing cost savings that are not commensurate with that risk. Furthermore, the Gas Workers state that Laclede employees make safety inspections of all gas appliances at a customer=s premises in conjunction with the removal of meters. Since the gas is turned off at the time of meter removal, the employees relight and perform safety inspections on all the customer=s gas appliances. The Gas Workers argue that gas leaks and other hazards are discovered on a regular basis as a result of these safety inspections and are immediately remedied. They conclude that the large reduction in the number of meters to be tested results in an unacceptable decrease in the health and safety of customers and the general public.

Laclede filed a reply to the Gas Workers= response, contending that it takes very seriously its responsibility to protect the health and safety of its customers, employees and the general public. Laclede further states that neither the Commission nor Laclede has ever found the inspection of each customer=s premises every ten years to be either necessary, appropriate or cost-effective to protect public safety and health. It argues that the Commission=s safety regulations rely on systematic, targeted inspections rather than on incidental inspections that are simply the by-product of a rule designed to ensure meter accuracy. Laclede further notes that its workers who are freed by the meter sampling program from the duties associated with meter removal and testing are, and will be, available to perform additional service and safety-related work for customers. According to Laclede, this will afford the workers a greater opportunity to inspect customer premises than was provided by the preexisting meter replacement requirement. Laclede maintains that permitting it to continue the meter sampling program will have absolutely no adverse impact on public health and safety, but instead will promote these objectives by enabling workers to do other customer premises work.

The Staff filed a memorandum to the official case file on November 25, 1996, recommending that the Commission grant Laclede a permanent variance from 4 CSR 240-10.030(19). The Staff points out that Laclede=s interim meter testing program for calendar year 1995 has identified two meter types where the accuracy rates were below 89 percent, and that as a result of this identification, Laclede is required to remove these meters within five years rather than remaining on the ten-year changeout schedule required under the Commission rule.

On December 23, 1996, the Commission suspended the tariff sheets which would have granted the variance on a permanent basis, and ordered Laclede to file a tariff sheet showing an extension of the interim variance until September 1, 1997. The Commission further stated that an evidentiary hearing was needed to allow the Commission an opportunity to consider whether implementation of a statistical meter testing methodology rather than strict compliance with 4 CSR 240-10.030(19) is appropriate.

Laclede, the Gas Workers and Staff filed testimony relating to this matter. On March 13, 1997, the Commission conducted an evidentiary hearing. The parties waived the filing of briefs, and made opening and closing statements in lieu of briefs. The Office of the Public Counsel did not participate in this case and asked to be excused after opening statements.

### **Findings of Fact**

The Missouri Public Service Commission, having considered all of the competent and substantial evidence upon the whole record, makes the following findings of fact.

The Gas Workers argue that the safety of customer facilities may be impaired if Laclede discontinues the practice of physically removing and testing each meter on a 120-month schedule. However, no party has presented evidence that the mere act of removing and testing the meter under 4 CSR 240-10.030(19) has any direct safety benefit. It is the *incidental* safety benefits that are in question. The evidence shows that when Laclede removes a meter at a residential structure, its employee turns off the gas. After the meter is replaced, the gas is turned back on. When Laclede turns the gas supply back on, the employee inspects customer piping and appliances pursuant to 4 CSR 240-40.030(12)(S)1. (Ex. 12). It is these incidental safety-related inspections that follow a gas turn-on after a meter changeout that the Gas Workers wish to preserve.

It is first important to recognize that these safety-related

inspections are not required by 4 CSR 240-10.030(19) [@Section 19"], which is the subject of this proceeding and from which Laclede seeks a permanent variance. Section 19 falls within Chapter 10 of the Commission=s rules which are applicable to all utilities and which Astandards of quality, @ not safety. deal with For example, Section 10.030(18), which immediately precedes Section 19, deals with mechanical defects in gas service meters. In contrast, the rule which requires Laclede=s employees to inspect a customer=s gas appliances and piping after a gas turn-on is found in Chapter 40 of the Commission=s rules. See 4 CSR 240-40.030(12)(S)1. This chapter applies only to gas utilities, and contains Subchapter 40.030 which deals exclusively with ASafety Standards -- Transportation of Gas by Pipeline. @ These safety rules will be unaffected by any variance granted in this case.

The evidence shows that Staff witness Robert R. Leonberger contacted personnel from regulatory utility commissions in the six states surrounding Missouri. Leonberger found that local gas distribution companies (LDCs) in Illinois, Indiana, Iowa, Kansas and Oklahoma use statistical sampling meter accuracy programs, such as used here by Laclede. Personnel from Nebraska said that there was no statewide or commission requirement to remove natural gas meters, and that the gas LDCs change out and test meters according to their own procedures. Leonberger further testified that the Commission=s Management Services Department recommended that Laclede consider implementation of a statistical sample testing program in Case No. GO-85-63. (Ex. 11, p. 4).

The Commission finds that the application for variance should be approved because the evidence shows that Laclede=s statistical sampling methodology is a more effective way to ensure meter accuracy than a strict application of Section 19. Moreover, requiring strict compliance with Section 19 does not ensure effective safety inspections. The evidence shows that а majority of the time associated with the meter changeouts is not spent on inspections. (Ex. 4, pp. 13-14). At the same time the Commission finds that the piping and appliance inspections conducted by Laclede when it turns on the gas supply to a residence provide important opportunities to observe and correct unsafe conditions. The Commission finds that from 1990 through 1994 an average of 58,500 meter changes occurred under the existing Section 19 procedure. Since the interim variance was granted, an average of 37,000 meter visits have occurred under the statistical sampling method. This decrease in meter changes will apparently result in the \$2.7 million savings cited by Laclede (or, \$1.8 million cited by the Gas Workers). The Commission finds that this decline of 20,000 visits will eliminate 20,000 opportunities to observe and remedy potentially unsafe conditions.

While it will grant the variance request, the Commission finds that the appropriate response by Laclede to this decision would be the implementation by the company of a program which recaptures those Alost@ opportunities elsewhere in Laclede=s safety inspection program.

6 of 8

The program should be set up so that the labor hours involved approximate the hours saved by implementation of the statistical meter sampling methodology. If Laclede desires Commission review of the program, Laclede should file a motion to establish a docket regarding the program, along with the proposed program. In developing the program, Laclede should bear in mind the need to inspect older homes on a regular basis whose occupants are more likely to benefit from piping and appliance inspections as compared to the occupants of newer homes. (Ex. 9, p. 6).

This program should reflect the spirit of the first sentence in the objective section of Laclede=s *Turn-On Information* pamphlet which states:

AA Turn-On order presents one of the best opportunities to make a good impression on customers and to fulfill Laclede=s primary objective B customer safety and satisfaction.@

(Ex. 12, Section 10-1).

The Commission is confident that Laclede will work with interested parties to develop an effective program consistent with this statement.

### **Conclusions of Law**

The Missouri Public Service Commission has arrived at the following conclusions of law.

Laclede Gas Company is a gas corporation and a public utility under Section 386.020(18) and 386.020(42), respectively. Laclede Gas Company is subject to the Commission=s jurisdiction under Chapters 386 and 392.

Under 4 CSR 240-10.030(19) the Commission has authority to waive strict compliance by this order. The Commission finds that good cause exists to grant the waiver of the strict application of Section 19.

#### **IT IS THEREFORE ORDERED:**

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1. That the application for a variance from 4 CSR 240-10.030(19) filed by Laclede Gas Company on April 18, 1995 is approved.

2. That Laclede Gas Company shall file appropriate changes to its tariff to reflect the implementation of a permanent variance and termination of the interim variance from 4 CSR 240-10.030(19) no later than May 14, 1997.

3. That the Commission=s Staff shall file a memorandum to the official case file no later than May 23, 1997 regarding whether the tariff sheets comply with this Report And Order.

4. That this Report And Order shall become effective on May 31, 1997.

#### BY THE COMMISSION

#### Cecil I. Wright

**Executive Secretary** 

(SEAL)

Zobrist, Chm., Crumpton and

Drainer, CC., concur and certify

compliance with the provisions

of Section 536.080, RSMo 1994.

Dated at Jefferson City, Missouri,

on this 13th day of May, 1997.

#### GC-2006-0313

#### Complainant USW Local 11-6 Data Requests to PSC

Requested From: Tim Schwarz, Esq.

Date Requested: June 6, 2006

**Data Request 1:** Identify all documents that any member of Staff has reviewed pertaining to the use, reliability, efficiency and/or safety of the Grunsky bag for gas utility work, and for each, indicate where the document was obtained and when it was reviewed.

**<u>RESPONSE</u>**: Sometime in January 2006, the Staff inquired about available information that Laclede personnel knew about concerning changing meters with the Grunsky bag method. On February 1, 2006, Laclede personnel e-mailed the Staff information from the Charles Grunsky Company (a brochure, an equipment catalog/product list, and a memorandum describing the Grunsky Meter Change Method). This information was reviewed sometime after it was received.

The internet was also searched for information about the Grunsky meter change method. Some websites were found with limited information (patent dates, description of the method, etc.), but website addresses were not noted. No information indicating problems with the method were found.

**Data Request 2:** Identify all studies that any member of Staff has conducted or participated in pertaining to the use, reliability, efficiency and/or safety of the Grunsky bag for gas meter change-outs or other gas utility work, indicating the date of the study and the person(s) who participated.

**RESPONSE:** No "studies" have been conducted or participated in by Staff.

**Data Request 3:** Identify all persons outside of the PSC with whom any member of Staff has consulted with about or discussed the use, reliability, efficiency and/or safety of the Grunsky bag for gas meter change-outs or other gas utility work, and for each person identified, describe the information provided by said person.

**<u>RESPONSE:</u>** The Staff discussed the Grunsky bag meter change-out method with Laclede personnel. The conversations included Mark Lauber, Ben McReynolds, other Laclede personnel.



The information provided was as follows: a basic description of the procedure for using the Grunsky bag method; a description of the pilot program conducted to evaluate the Grunsky meter change-out procedure (in the Missouri Natural Division, they changed out 100 meters using the method and went into each of the residences to check pilot light operation and had 100% success. The Company conducted a similar pilot project in Laclede area with 50 meter change-outs and went inside on each one to check pilot lights and had 100% success); the Company began using the procedure in 2005 and at the time of the conversation with Staff, the Company had done about 500 meter change-outs using the procedure (about 300 in Missouri Natural Division and about 200 in Laclede).

The Staff discussed use of the Grunsky bag meter change-out method with Jim Gorman at Missouri Gas Energy. MGE had been using the Grunsky bag method to change-out meters for approximately 10 years. It was estimated that MGE had successfully changed out over 100,000 meters using the Grunsky bag method. MGE personnel indicated that they had had success using the method and had not identified any problems using the method.

**Data Request 4:** Please produce for inspection by USW Local 11-6 all documents identified in response to, or responsive to, each of the above data requests.

**<u>RESPONSE:</u>** The information identified above in Data Request 1 from the Charles Grunsky Company (a brochure, an equipment catalog/product list, and a memorandum describing the Grunsky Meter Change Method) is attached.

Requested by: Sherrie A. Schroder Attorney for Complainant USW Local 11-6 Phone: (314) 727-1015 Fax: (314) 727-6804

The information provided to Complainant USW Local 11-6 in response to the above data requests 1-4 is accurate and complete, and contains no material misrepresentations or omissions based upon present facts known to the undersigned. The undersigned agrees to immediately inform Complainant USW Local 11-6, by notice to its attorney Sherrie A. Schroder, if any matters are discovered which would materially affect the accuracy or completeness of the information provided in response to this data request.

Date: 6 20 2066

Signed By: Hobert Kenbuge Title: UTICITY REGULATORY ENGINEERING SUPERVISOR - ENERGY DEPARTMENT



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<ul> <li>"We up from: costs</li> <li>Day consistent solve when you're neady to use it</li></ul>	3. High up front costs You pay 55 or more per made just for coston country long. In short you nade a sightle investment,, with an one of the state of the sightle investment, with an
Mo. Custom Connector The Crusty Method snips with a substant "Ref" connector.	Objection Connectors Objection Reputer bar Weighter bart own connectors. Meeting parts mean risk of failure and sectors interruption.
Grunsky Company	Other Companies
ie Difference:	Compare the Difference:

## We have a 32-year track neared for method is used by We composite worldwide. We remain family owned and openated.! No Risk n Na



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The Gransky "hag," method requires only a "Teo" orquoetton to the house line. "Dia permits Gransky's simplified device to supply "Dia permits die few montents necessary to change house load during die few montents necessary to change meters. Fits to a Tee 1992) 1993

Insteam Many gas withins have already adopted the outlet to as sundard. Arroady obler benefits, it allows herize and regain to parts "upstream" from the "Tee" for companies that have not you upproved in the "Tee" standard, the "Tee" costs only pannies more that in "Ellow? The savage offend by the Changey method, together with other "Tee" transfur, more that justify this minimal cost difference.

 Weight tess thin 23 Bas, 'nothding tigh-pressive ordinder (1/6 ca. ft (CC shing 1600 Bas))
 Contains easugh tahirmal gas to make 25-30 meler charges.
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 Probas min bags available in less sizes maging from 3/4-insh to 2-incch. Equipment ¢ . .

Customer Lists Gunuty Company Longtime sustance include Parfic Gas and Diestric Co. Southwest Gas Corp. Robinst Beigry AUSCA San Diego Gas and Electric Co. Mechanismo Gas Mechanismo Gas

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## CIARESCRIMENT COMPANY, IC. 2804 Newlands Avenue • Belmont, Ca., 94002



**Gas Meter Quick-Change Equipment** 





CHARLES GRUNE KY COMPANY, Inc. 2804 Newlands Avenue • Belmont, Ca., 94002

### **CARRIER I**

)



This lightweight delivery system includes: Aluminum carrier box, H.P. regulator, L.P. regulator and all necessary piping and gauges.

Cylinder, hoses and assemblies sold separately.

### CYLINDER

Model 20 cu ft. 1800# ICC Rating 2015 psi Working Pressure 5360 psi Blow-off Safety Valve



Includes: Valve, neck ring and protective cap.



### **CARRIER II**

Same as Carrier I with addition of Quick Coupler bypass. Hooks up to risers with ball check valves to bypass cylinder gas.





Cylinder sold separately.

### QUICK COUPLER



1/8" Ball Check Valve Probe



1/4" Ball Check Valve Nipple



1/4" Ball Check Valve Coupler









### **PROBE & BAG ASSEMBLY**



Size of			Code
Meter Te	e		No.
3/4".		• • • •	PB-750
1"			PB-1000
1-1/4"		• • • •	PB-1250
1-1/2".			PB-1500
<b>2</b> "			PB-2000

Assemblies consist of a neoprene dipped latex rubber bag, a pliable neoprene probe and a S piece aluminum purge valve set.

### GAS RISER BAG (B-xx1500)

For easy replacement of riser union-style gas stop. 18" bag rolled at both ends.





### CHARLES GRUNDKY COMPANY, DG. 2804 Newlands Avenue • Belmont, Ca., 94002

### BAG

Size of	Code	
Meter Tee	No.	
3/4" .	<b>B-750</b>	and the second second second second second second second second second second second second second second second
'	<b>B-1000</b>	
1-1/4" .	B-1250	
1-1/2".	<b>B-1500</b>	and the state of the state of the state of the state of the state of the state of the state of the state of the
2"	B-2000	

Made of gas resistant natural rubber dipped in neoprene



### PROBE

	Size of Meter Tee 3/4",	
And the second of the second second second second second second second second second second second second second	1-1/4" 1-1/2" 2"	

Pliable neoprene molded probe.

TELEPHONE / FAX (650) 593-9302

Code

No. P-750 P-1000

P-1250 P-1500 P-2000



CIARLES GRUNSKY COMPANY, IIG. 2804 Newlands Avenue • Belmont, Ca., 94002

### **BALL VALVE**

1/2" Brass shut-off valve.



Included in carriers. Also sold separately.

### **FLEX HOSE**

1/2" I.D. Plastic, with full spring and brass fittings.

Available in two sizes: 5 ft. lengths 7.5 ft. lengths





**Replacement Parts** 

### HIGH PRESSURE REGULATOR (SERIES 600)

Maximum Inlet Pressure 3000 psi. Internal Outlet Pressure preset to 50 psi. Replaceable brass gauges & tailpiece available. 0-100 psi gauge 0-4000 psi gauge



### WATER COLUMN GAUGE



0-15" of Water Column 2-1/2" Dia. 1/4" NPT. Bottom Connect

### LOW PRESSURE REGULATOR (FISHER L.P.)

Maximum Inlet Pressure 250 psi Maximum Reduced Pressure 5 psi Orifice Size — .075" Inlet Connection — 1/4" NPT Outlet Connection — 3/8" NPT





### CHARLES GRUNDAY COMPANY, IIG. 2804 Newlands Avenue • Belmont, Ca., 94002

**Specialty Items** 

### MANIFOLD CHANGER (MC-100)



HOSE: 15 ft. Length 5/8" I.D. Plastic S.S. Spring wrapped.

FITTINGS: \$/4" x 1/2" Bushing on swivel, ball valve and elbows.

May be purchased separately.



### CHARLES GRUNDKY COMPANY, Inc. 2804 Newlands Avenue • Belmont, Ca., 94002

**Specialty Items** 

### **GRAB BAG**

For service or change-out of regulators on multi-meter manifolds.

Rubber, molded-hand bag. Zippered full length with velcro tie straps.



'raining video available

### **TOTE TRAY**

For use in areas where 250 psi is the maximum pressure available.

May be used with propane tank or off CNG truck tanks.

Comes with regulator, gauges, shut-off valve and a 10 ft. 300# pressure hose.

Flex Hose, Probe & Bag assembly sold separately







# CHARLES GRUNDSKY COMPANY, IIG. 2804 Newlands Avenue • Belmont, Ca., 94002 Telephone: (650) 593-9302 • Fax: (650) 593-9302

### **Product Order Information**

CODE TEE DESCRIPTION	
PB-750 3/4. Probe & Bag Assembly.	
PB-1000 1 Probe & Bag Assembly	
PB-1250 1-1/4 Probe & Bag Assembly	
PB-1500 1-1/2 Probe & Bag Assembly	
PB-2000 2 Probe & Bag Assembly	

CODE TEE	PROBE REPLACEMENTS
P-750 3/4	Probe Only
P-1000 1	Probe Only
P-1250 1-1/4	Probe Only
P-1500 1-1/2	Probe Only
P-2000 2	Probe Only

CODE	TEE	BAG REPLACEMENTS
B-750	3/4	Bag Only
B-1000	1	Bag Only
		Bag Only
B-1500	1-1/2	Bag Only_
B-2000	2	Bag Only
P.B.P.		Set of Probe & Bag Fittings (Purge Valve Set)
grab b	ĄG	For Manifold Regulator repair
B-xx150	0	Bag 18" rolled ends: Service cock repair
MC-100		5/8" I.D. plastic hose with spring, 3/4" x 1/2" bushing on swivel, and ball valve. FITTINGS: (less probe and bag) HOSE: (15 ft. length)
		CALL FOR CURRE!
		PRICI



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 CHARLES FRUNCTION COMPANY, Inc.

 2804 Newlands Avenue • Belmont, Ca., 94002

 Telephone: (650) 593-9302 • Fax: (650) 593-9302

#### Product Order Information

CÄRRIER	Aluminum box, with H.P. & L.P. regulators gauges and pipe fittings. (Less Hose, PB Assembly & Cylinder)	
CARRIER II	Same as Carrier I with Adaption for quick coupler bypass.	
CYLINDER	Model 20 cu. ft. with neck ring and capped valve.	
CALIBRATION KIT ( <u>not shown</u> )	Tests combustible gas and/or carbon monoxide indicators. Used with 20 cu. ft. cylinder of certified test gasses.	
TOTE TRAY	Tray, with regulator, gauges, and shut- off valve. For Low Pressure cylinders to 300 psi	
FLEX HOSE	1/2" I.D. plastic hose with spring: 5 ft. length 7.5 ft. length	
	REPLACEMENT ITEMS	
WATER COLUMN GAUGE	Gauge: 0 - 15" Water Column	
FISHER	Regulator: Low Pressure	
SERIES 600	Regulator: High Pressure Gauge: 0 - 100 psi Gauge: 0 - 4000 psi Tail Piece Face Plate	
CARRIER BOX	Aluminum box with handle	
BALL VALVE	1/2" Shut Off Valve	
QUICK COUPLER	1/4" Nipple & 1/8" Ball check valve	FOR CU
	CALI	

LL FOR CURRENT


## TELEPHONE / FAX (650) 593-9302

Gas Meter Quick-Change Equipment Training Videos Available

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### HEMORANDUM

## CONTRACTOR OF THE CHANGE METHOD

Submitted by: William F. Clauhs Division Engineer Schuylkill Division October 21, 1985

#### THE GRUNSKY METER CHANGE METHOD

#### **BACKGROUND:**

1

The Grunsky Method was developed by Southern California Gas and Pacific Gas and Electric in the 1950's. The Method

implemented when the outdoor meter sets installed after World War II became due for a periodic meter change. The initial emphasis in designing the Grunsky "Hot-Change" method was based on making the P.M.C. more convenient for the customer By using a supply of compressed natural gas, Charles Grunsky invented a system of providing continuous gas service to a customer's fuel line while isolating the gas meter. His method

only provided uninterrupted service, but allowed the growing number of outdoor gas meters to be changed without gaining access to the customer's premise

According to Bob Hudson of Pacific Gas and Electric, his company is presently averaging 14.7 meter changes per day using

Grunsky Method. By using the Grunsky Method, the California Gas Companies were not only able to improve "customer convenience,

found the "Hot Change" system also afforded labor savings by eliminating the need to purge fuel lines, relight appliances make revisits to C.G.I. customers.

#### DESCRIPTION OF METHOD:

To use the "Hot Change" method, a standard threaded tee must be installed in lieu of an elbow on the outlet piping of the meter set. The "Tee" installation allows the use of the Probe and Bag Assembly invented by Grunsky.



The Grunsky meter changer includes a standard D.O.T. 20 S.C.F. cylinder to store C.N.G. at 2,000 PSIG and two regulators to reduce the pressure in stages to six (6) inches W.C. Each regulator has over pressurization relief devices. The patented invention is a hollow, tapered, hard-rubber probe surrounded by a pliable rubber bag. The probe and bag assembly is connected to the outlet side of the L.P. regulator via a 3/4 inch seven-foot flexible hose with a quarter-turn valve. Probes are available in sizes to accommodate 3/4, 1, 1½, and 2-inch tees. The total kit, enclosed in an aluminum carrying case, weighs 26 pounds.

The manufacturer's procedure for replacing a meter with the "Hot Change" method is as follows:

#### CHANGE PROCEDURES:

Serviceman carries hot change equipment and replacement meter to meter location. This requires only one trip. He then proceeds as follows:

- 1. With wrench, back out plug at meter outlet tee to finger tight and also loosen meter nuts.
- 2. Snap mouth of bag over end of tee.
- 3. Turn on auxiliary gas valve.
- 4. Purge air from bag with purge valve at bag.
- 5. Remove the plug with fingers by manipulation through rubber bag. Plug drops into bag. At this stage auxiliary gas is mingling with meter gas.
- Force probe into house line through tee, using a twisting motion. This places house load entirely on auxiliary supply.
- 7. Shut off service cock and quickly make meter change.
- 8. Open service cock and purge new meter by opening bag valve.
- 9. Remove probe from house line so meter gas can flow to appliances.
- 10. Manipulate plug through bag and screw into tee one or two turns.
- 11. Shut off auxiliary gas valve and remove bag.
- 12. Dope remaining threads on plug and tighten with wrench.
- 13. Make soapsuds test and return equipment to truck.

# Probe & Bag in Initial Pasilians Plugs



#### PILOT PROGRAM:

The pilot program in Schuylkill Division was designed to evaluate three areas: the load capacity of the equipment, the cost to retrofit existing outdoor sets, and the actual field changing of meters using the Grunsky equipment.

#### Load Capacity of the Equipment:

To determine the load capacities of the 3/4 and 1-inch probe, "Tees" were installed on the fuel line feeding the highefficiency heaters in the appliance service training area at West Conshohocken Gas Plant. Connected to the fuel line was a demonstration cart, containing four burners and six (6 pilot assemblies. U-gauges were connected at the outlet of the regulator and the burner fuel line. While the gas was being supplied by the Grunsky kit, all pilots were lit and various loads were created. The variation of loads was accomplished by turning on and off the different water heater burners and high-efficiency heaters. For each load condition, pressure readings were recorded.

The manufacturer supplies a Fisher 912 regulator with a capacity of 100 cu. ft. per hour. As expected, fuel line pressures drop excessively on loads over 150 C.F.H. However even with cycling loads as high as 269 C.F.H., the pilots remained on.

The 912 regulator was replaced by our standard Rockwell house regulator with a 1400 C.F.H. capacity. With adequate regulation the 3/4-inch probe could handle a 291 C.F.H. load with a 3-inch drop in pressure

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#### Retrofitting Existing Outdoor Meter Sets:

The plan to retrofit existing sets during the 1985 periodic meter changes had two major considerations: first, tees were required for a realistic field test (what better locations than the meters relocated outdoors 16 years ago where we planted bushes.) Secondly, with 60 percent of the class "A" meters already outdoors, a cost figure for the additional expense to install the "Tee" would be required.

In January, to accomplish the retrofitting, the Schuylkill Division Utilization Mechanics were trained on installing tees for the Grunsky Method. Tees were to be installed in less than ten minutes. Any instances where tees could not be installed or where the time exceeded the ten minute limit were to be reported by turning in a Miscellaneous Ticket. There were 1300 outdoor periodics completed, with only six (6) tickets turned in. To verify the "feed-back" information, and also to set up the field demonstrations, addresses of completed outdoor periodics were visited on a random basis. Overall, the results from the field survey were outstanding. The mechanics not only showed innovative methods of installing tees, but practically installed tees on every outdoor periodic

Initially, we estimated the "Tee" installation would add an additional five to ten minutes to the job-site time on a periodic. When comparing Schuylill's periodic change times including tee installation with those periodic change times

Retrofitting Existing Outdoor Meter Sets (cont'd): f the four other divi ons it determined that Schuy ki 1 had premise time charged to the pe iodic accounts than the divis ons using the traditiona methods Thoma additiona nstal ti expense was discernable

#### Field Testing:

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To field te t the Grunsky equipment appointments were made the tome on the same treet who previous y had the Tee connection installed. The customers are to do four test program and entrance to their home was required

Th fir d to ting was accomplehed by two one man tually changing the outdool meter and the second man inside the premimonitoring the fue line pressures eye ingload and checking the tability of the pilots

To stimu ate the typical work day meters were oaded d un aded t both the serv ce bui ding p' tf and th customer premise Routine paperwork such as meter orders and the Chron-Time Sheet also completed for each ob ocation

Results from the two day of find testing were encouraging On the first day fourteen meters were changed while ixteen changed on the second day. More metal could have been changed on the fir day but three C G I were encountered

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#### Field Testing (cont'd):

On the thirty meters changed, not one pilot was lost. The only time the pressure significantly fluctuated to a nine (9 W.C. was when the probe was inserted under a "no-load" situation. The increased surge was caused by the pressurized bag collapsing as the probe was inserted. One method we found to rectify the "no-load" customer was to "create" load by momentarily cracking the purge valve on the bag.

The Field Testing also indicated the 20 SCF bottle supplied would generally be sufficient for a typical springtime day of P.M.C.'s. Our customers' consumption of gas was very slight during the field test days of April and May. Most of the CNG used was contributed to meter purging.

The presence of bushes did not dramatically effect the use of the Grunsky equipment. Basically, the room required to change the meter is adequate to install the bag and probe assembly.

#### ADVANTAGES OF GRUNSKY METHOD:

#### Block Meter Changes:

One of the major benefits of going to the "Hot Change method on outdoor meters is the ability to perform "block" meter changes. Under the Grunsky Method all of the outdoor meters due for a P.M.C. could be geographically changed, minimizing or eliminating travel time between jobs. Although

#### ADVANTAGES OF GRUNSKY METHOD (cont d):

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Block Meter Changes (cont d):							
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SCHUYLKILL DIVISION 1985 P.M.C.

Month	Hrs. Charged	Meters Changed	Hours/Meter			
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#### ADVANTAGES OF GRUNSKY METHOD (cont'd):

#### No Appointments (cont'd):

clerk spends approximately three (3) hours of phone calling to make 27 appointments. The appointment expense amounts to \$.80 per periodic. Projecting 85% of the meters will be outdoors 16 years from now, the total system expense for appointments would be approximately \$10,400 in today's dollars.

Another office expense encountered in our present system is the handling of post-card appointments. Presently, the G.S.D. maintains a file of P.M.C.'s where the customer has been notified that their gas meter is due for a change. Upon receipt of the post-card, the G.S.D. must match the request with the original meter change order and dispatch a serviceman from the board on the date requested. Under the Grunsky Method, not only would we minimize the dispatchers' time to indoor sets, but more importantly, we reduce the number of customers requesting meter changes on peak workload days. A good example is the peak transfer days we experience near the first and 15th days of every month.

#### Elimination of C.G.I.'s:

As experienced in our field testing, customers "break" appointments. During March through June this year, the divisions charged 831 hours to periodic C.G.I.'s for the 10,400 class "A" meters changed. The projected yearly C.G.I. expense for 1985 can be estimated at \$40,000.

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#### ADVANTAGES OF GRUNSKY METHOD (cont'd):

#### Other Uses:

By having the ability to maintain continuous service without the customer being home, we open a new avenue for other operating procedures. With the tee installed, we have the possibility of replacing other gas facilities such as regulators, defective I.V.U.'s or the installation of a meter bar. In distribution work, the tee and the use of larger cylinders would play a role in maintaining service to residential heating customers in cold weather in lieu of electric space heaters.

#### SAFETY CONSIDERATIONS:

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A major concern expressed during the pilot program was the number of potential hazards that would go undetected under the Grunsky Method. A review of Schuylkill's red tags during our peak P.M.C. change month indicated some interesting results. Most of the red tags generated in March resulted from customer requested service, namely odor and appliance service calls.

<u>SCHUYLKILL DIVISION - RED TAGS</u> <u>March, 1985</u>							
Type of Work	Number of Jobs	Number of <u>Red Tags</u>	<pre>% Red Tags Per Job</pre>				
Appliance Service	766	18	2.3%				
Meter Installations	137	4	2.9%				
Inside Odor Call	167	15	9.0%				
P.M.C.	712	9	1.3%				
Transfers	2813	5	0.2%				

#### SAFETY CONSIDERATIONS (cont'd):

Using March's ratio of 1.3 red tags per 100 meters changed, we project that Schuylkill will red tag 36 appliances during the 2800 P.M.C.'s in 1985. In the last 12 months ending in June, 666 red tags were installed, indicating periodics account for five (5) to six (6 percent of the precautionary or hazardous . conditions found in Schuylkill Division.

In future years, the F.O.D. system could be used to identify potential red tag addresses. One scenario could be customers requiring a meter change where P.E.Co. has not provided appliance service work for a pre-determined number of years. Appointments would be made for the non-serviced customers, while the Grunsky Method was used for the vast majority of outdoor periodics.

#### SUMMARY:

As proven by Pacific Gas and Electric and our Field Testing, the Grunsky Method offers a tremendous way of increasing our productivity in future meter changes. Grunsky's Method coupled with block changes, elimination of appointments and C.G.I.'s, offers a potential yearly savings to the Company of \$258,000.

To capitalize on these savings, we must not only install "Tees" on the new or rebuilt sets, but also retrofit the existing outdoor set during a P.M.C. or other meter work. Schuylkill Division has proven the tee retrofit can be accomplished at a minor incremental expense.

The field order dispatch computer system will open a new door for gathering service history about our customers. In

#### SUMMARY (cont'd):

the next decade, computer programs could be developed to pin-point addresses where visitations should be made, rather than continuing a work-practice as a stop-gap measure to catch a relatively few number of red tag conditions.

#### **RECOMMENDATIONS:**

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1. The diaphram outdoor meter standards be revised to include the "Tee."

2. Allow the retrofitting of the 1986 outdoor periodics with "tees" unless a division exceeds a preset economic breakpoint of 1.1 hours per meter.

3. Stress compliance of the Red Tag Policy on customerrequested work.

4. Place a note in the "bring-up" file for January, 2001, to "Develop Program for the F.O.D. System to Identify Potential Red Tag Addresses."