

ORIGINAL
OPEN MEETING



40

MEMORANDUM

TO: THE COMMISSION

FROM: Michael Kearns
Safety Division *Michael Kearns*

DATE: November 14, 2006

RE: NOTICE OF PROPOSED RULEMAKING REGARDING AMENDMENTS TO THE PIPELINE SAFETY RULES R14-5-202, R14-5-203, R14-5-204 AND R14-5-205 (DOCKET NO. RG-00000A-06-0648)

Staff of the Safety Division ("Staff") of the Arizona Corporation Commission ("Commission") is proposing amendments to the Rules governing Pipeline Safety to accomplish the following:

- Update the Rules by incorporating the most recent amendments to the Code of Federal Regulations (CFR), Title 49, Parts 40, 191, 192, except I (2) and (3) of Appendix D to Part 192, 193, 195 (Except 195.1(b)(2) and (3)) and 199, revised as of August 1, 2006. R14-5-202(B), (J), (K), R14-5-204(A)(2), R14-5-205(B), (G).
- Update the name and location of the Federal Office of Pipeline Safety to Pipeline and Hazardous Materials Safety Administration, Room 7128, U.S. Department of Transportation, Washington, D.C. 20590. R14-5-202(C)(2), R14-5-203(C)(5), R14-5-204(A)(1), (A)(2), (A)(3), (B) and R14-5-205(C)(2).

The proposed amendments will conform to the most recent amendments of the Federal Pipeline Safety Regulations, which is required by the Commission's Agreement with the United States Department of Transportation, Office of Pipeline Safety, and require for the Commission's Pipeline Safety Group to receive Federal funds for Pipeline Safety Programs.

Staff believes that the proposed amendments will be beneficial to the general public by maintaining the safe operation of pipeline facilities. Therefore, Staff recommends that the proposed amendments to the Rules be forwarded to the Secretary of State for Notice of Proposed Rulemaking. Staff further recommends that the Hearing Division schedule a public comment proceeding on the proposed amendment to the Rules no earlier than thirty (30) days after publication in the Arizona Register, but as soon as practicable thereafter, in Phoenix or Tucson, Arizona.

Originator: Robert Miller

Arizona Corporation Commission
DOCKETED

NOV 15 2006

DOCKETED BY	<i>MR</i>
-------------	-----------

AZ CORP COMMISSION
DOCUMENT CONTROL

2006 NOV 15 P 12: 58

RECEIVED

ARTICLE 2. PIPELINE SAFETY

R14-5-202. Construction and Safety Standards

- A. Applicability: This rule applies to the construction, reconstruction, repair, operation and maintenance of all intrastate natural gas, other gas, LNG and hazardous liquid pipeline systems, as described in A.R.S. § 40-441.
- B. Subject to the definitional changes in R14-5-201 and the revisions noted in subsection (C), the Commission adopts, incorporates, and approves as its own 49 CFR 40, 191, 192 except I (2) and (3) of Appendix D to Part 192, 193, 195, except 195.1(b)(2) and (3), and 199, revised as of ~~January 15, 2004~~ August 1, 2006 (and no future amendments), incorporated by reference and copies available from the Office of Pipeline Safety, 2200 North Central Avenue, Suite 300, Phoenix, Arizona 85004 and the United States Government Printing Office, P.O. Box 371954, Pittsburgh, Pennsylvania 15250-7954.
- C. The above mentioned incorporated Parts of 49 CFR, except Parts 191, 193 Subpart A and 195 Subpart A and B, are revised as follows:
1. Substitute "Commission" where "Administrator of the Research and Special Programs Administration" or "Office of Pipeline Safety" (OPS) appear.
 2. Substitute "Office of Pipeline Safety, Arizona Corporation Commission, at its office in Phoenix, Arizona" where the address for the Information Resources Manager, Office of Pipeline Safety, ~~Research and Special Programs Administration,~~ Pipeline and Hazardous Materials Safety Administration, U.S. Department of Transportation appears.
- D. Operators of an intrastate pipeline will file with the Commission an Operation and Maintenance Plan (O & M), including an emergency plan, 30 days prior to placing a pipeline

system into operation. Any changes in existing plans will be filed within 30 days of the effective date of the change.

E. Operators of an intrastate pipeline transporting sour gas or oil are subject to industry standards addressing facilities handling hydrogen sulfide (H₂S). Standards adopted are:

1. NACE Standard MR-0175-99 (1999 Revision); (and no future revisions), Standard Materials Requirements-Sulfide Stress Cracking Resistant Metallic Material for Oilfield Equipment, incorporated by reference and no future amendments. Copies are available from the Office of Pipeline Safety, 2200 North Central Avenue, Suite 300, Phoenix, Arizona 85004 and the NACE International, 1440 South Creek Drive, Houston, Texas 77084-4906.
2. API RP55 (1995 Edition); (and no future amendments), API recommended practice for conducting oil and gas production operations involving hydrogen sulfide, incorporated by reference and no future amendments. Copies are available from the Office of Pipeline Safety, 2200 North Central Avenue, Suite 300, Phoenix, Arizona 85004 and Techstreet, 777 East Eisenhower Parkway, Ann Arbor, Michigan 48108.

F. Operators of an intrastate pipeline transporting LNG, hazardous liquid, natural gas or other gas will not construct any part of a hazardous liquid, LNG, natural gas or other gas pipeline system under a building. For building encroachments over a pipeline system, the operator may require the property owner to remove the building from over the pipeline or reimburse the operator the cost associated with relocating the pipeline system. The encroachment shall be resolved within 180 days of discovery, or the operator shall discontinue service to the pipeline system. When the encroachment can not be resolved within the 180 days the operator shall submit to the Office of Pipeline Safety within 90 days of discovery a written

plan to resolve the encroachment. The Office of Pipeline Safety may then extend the 180-day requirement in order to allow the ratepayer and the operator to implement the written plan to resolve the encroachment.

- G.** Operators of an intrastate distribution pipeline transporting natural gas or other gas will not construct any part of a pipeline system closer than 8 inches to any other underground structure. If the 8-inch clearance cannot be maintained from other underground structures, a sleeve, casing, or shielding shall be used.
- H.** Operators of an intrastate pipeline transporting natural gas or other gas that have regulators, meters, or regulation meter sets that have been out of service for 36 months will abandon those lines and cap all ends. The Operator's steps to accomplish the abandonment shall not exceed six months beyond the 36 months out service status.
- I.** Operators of an intrastate pipeline shall not install or operate a gas regulator that might release gas in its operation closer than three feet to a source of ignition, opening into a building, air intake into a building or to any electrical source not intrinsically safe. The three foot clearance from a source of ignition will be measured from the vent or source of release (discharge port), not from the physical location of the meter set assembly. This subsection shall not be effective with respect to building permits which are issued and subdivisions which are platted prior to October 1, 2000. For encroachment within the required three foot clearance caused by an action of the property owner, occupant or a service provider, after the effective date of this rule the operator may require the property owner to resolve the encroachment or reimburse the operator the cost associated with relocating the pipeline system. The encroachment shall be resolved within 180 days of discovery or the operator shall discontinue service to the effected pipeline system. When the encroachment cannot be

resolved within the 180 days the operator shall submit to the Office of Pipeline Safety within 90 days of discovery a written plan to resolve the encroachment. The Office of Pipeline Safety may then extend the 180-day requirement in order to allow the ratepayer and the operator to implement the written plan to resolve the encroachment.

- J.** Operators of an intrastate pipeline transporting LNG, natural gas, other gases or hazardous liquid will utilize a cathodic protection system designed to protect the metallic pipeline in its entirety, in accordance with 49 CFR 192, Subpart I, ~~January 15, 2004~~ August 1, 2006 (and no future amendments), incorporated by reference, and copies available from the Office of Pipeline Safety, 2200 North Central Avenue, Suite 300, Phoenix, Arizona 85004, and the United States Government Printing Office, P.O. Box 371954, Pittsburgh, Pennsylvania 15250-7954, except I (2) and (3) of Appendix D to Part 192 shall not be utilized.
- K.** Operators of an intrastate pipeline transporting natural gas or other gas will not use solvent cement to join together plastic pipe manufactured from different materials unless the operator utilizes a joining procedure in accordance with the specifications of 49 CFR 192, Subpart F, ~~January 15, 2004~~ August 1, 2006 (and no future amendments), incorporated by reference, and copies available from the Office of Pipeline Safety, 2200 North Central Avenue, Suite 300, Phoenix, Arizona 85004, and the United States Government Printing Office, P.O. Box 371954, Pittsburgh, Pennsylvania 15250-7954.
- L.** Operators of an intrastate pipeline transporting hazardous liquid, natural gas or other gas will not install Acrylonitrile-Butadiene-Styrene (ABS) or aluminum pipe in their pipeline systems.
- M.** Operators of an intrastate pipeline transporting hazardous liquid, natural gas or other gas will not install plastic pipe aboveground unless the plastic pipeline is protected by a metal casing,

or equivalent, and approved by the Office of Pipeline Safety. Temporary aboveground plastic pipeline bypasses are permitted for up to sixty (60) days, provided that the plastic pipeline is protected and is under the direct supervision of the operator at all times.

- N. Operators of an intrastate pipeline transporting hazardous liquid, natural gas or other gas that construct a pipeline system or any portion thereof using plastic pipe, will install, at a minimum, a 14-gauge coated or corrosion resistant, electrically conductive wire as a means of locating the pipe while it is underground. Tracer wire shall not be wrapped around the plastic pipe, tracer wire may be taped, or attached in some manner to the pipe provided that the adhesive or the attachment is not detrimental to the integrity of the pipe wall.
- O. Operators of an intrastate pipeline transporting natural gas, other gas or hazardous liquid, that construct an underground pipeline system using plastic pipe, will bury the installed pipe with a minimum of 6 inches of sandy type soil surrounding the pipe for bedding and shading, free of any rock or debris, unless otherwise protected and approved by the Office of Pipeline Safety. Steel pipe shall be installed with bedding and shading, free of any debris or materials injurious to the pipe coating, unless otherwise protected and approved by the Office of Pipeline Safety.
- P. Operators of an intrastate pipeline transporting natural gas or other gas that construct an underground pipeline system using plastic pipe will install the pipe with sufficient slack to allow for thermal expansion and contraction. In addition, all plastic pipe and fittings shall be marked CD, CE, CF or CG as required by ASTM D2513 (1995c Edition and no future editions), incorporated by reference, and copies available from the Office of Pipeline Safety, 2200 North Central Avenue, Suite 300, Phoenix, Arizona 85004 and ASTM International,

100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, Pennsylvania 19428-2959, for areas where the service temperature is above 100°F.

- Q.** Operators of an intrastate pipeline system transporting hazardous liquid, natural gas or other gases shall qualify welding procedures and shall perform welding of steel pipelines in accordance with API Standard 1104. Each welder must be qualified in accordance with API Standard 1104, 49 CFR 192, appendix A. The qualification of welders delineated in 49 CFR 192, appendix C may be used for low stress level pipe.
- R.** Operators of an intrastate pipeline transporting natural gas or other gas pipeline system shall survey and grade all detected leakage by the following guide: ASME Guide for Gas Transmission and Distribution Pipeline System, Guide Material, Appendix G-11-1983 except 4.4(c) (1983 Revision and no future revisions), incorporated by reference and copies available from the Office of Pipeline Safety, 2200 North Central Avenue, Suite 300, Phoenix, Arizona 85004 and the ASME, United Engineering Center, 345 East 47th Street, New York, N. Y. 10017. ("Should" as referenced in the Guide will be interpreted to mean "shall"). Leakage survey records shall identify in some manner each pipeline surveyed. Records shall be maintained to demonstrate that the required leakage survey has been conducted.
- S.** Laboratory testing of intrastate pipelines shall be conducted in accordance with the following:
1. If an operator of an intrastate natural gas, other gas, or hazardous liquid pipeline removes a portion of a failed pipeline, where the cause of the failure is unknown, as the result of an incident that requires a telephonic or written incident report under R14-5-203(B) or (C), the operator shall retain the portion that was removed and shall telephonically notify the Office of Pipeline Safety of the removal within two hours

after the removal is completed. A notice made pursuant to this subsection shall include all of the following:

- a. Identity of the failed pipeline,
 - b. Description and location of the failure,
 - c. Date and time of the removal,
 - d. Length or quantity of the removed portion,
 - e. Storage location of the removed portion,
 - f. Any additional information about the failure or the removal of the portion of the pipeline that failed that is requested by the Office of Pipeline Safety. An unknown failure is any failure where the cause of the failure is not observable external corrosion, third-party damage, natural or other outside forces, construction or material defect, equipment malfunction or incorrect operations; or is any failure where the Office of Pipeline Safety and the operator do not agree as to the cause of the failure.
2. Within 48 hours after telephonic notification pursuant to subsection (1), the Office of Pipeline Safety shall notify the operator that either:
- a. The Office of Pipeline Safety is directing the operator to have the portion of the pipeline that was removed tested by a laboratory to determine the cause or causes of the failure; or
 - b. The Office of Pipeline Safety is not directing laboratory testing and the operator may discard the portion of the pipeline that was removed. The Office of Pipeline Safety shall confirm its notification in writing.
3. If the Office of Pipeline Safety directs laboratory testing pursuant to subsection

(2)(a):

a. The Office of Pipeline Safety shall:

- i. Determine the laboratory that will do the testing pursuant to subsection (4) and the period of time within which the testing is to be completed.
- ii. Approve the number and types of tests to be performed.
- iii. Notify the operator of its determinations pursuant to subsections (3)(a)(i) and (ii).

b. The operator shall:

- i. Notify the Office of Pipeline Safety of the number and types of tests proposed by the operator.
- ii. Notify the Office of Pipeline Safety of the date and time of any laboratory tests at least 20 days before the tests are done.
- iii. At the request of the Office of Pipeline Safety, ensure that a representative of the Office of Pipeline Safety is permitted to observe any or all of the tests.
- iv. Ensure that the original laboratory test results are provided to the Office of Pipeline Safety within 30 days of the completion of the tests.
- v. Pay for the laboratory testing.

4. In determining a laboratory pursuant to subsection (3)(a)(i), the Office of Pipeline Safety shall:

a. Submit a written request to at least three different laboratories for bids to

conduct the testing.

- b. Consider the qualifications of the respondent laboratories to perform the testing, including:
 - i. Past experience in performing the required test or tests according to ASTM International standards.
 - ii. Any recognition that the laboratory may demonstrate with national or international laboratory accreditation bodies.
- c. Select the laboratory that offers the optimum balance between cost and demonstrated ability to perform the required test or tests.
- d. The Office of Pipeline Safety shall not select a laboratory pursuant to this subsection before either of the following, which ever occurs first:
 - i. The Office of Pipeline Safety has received written bids from at least three different laboratories.
 - ii. Thirty days from the date of the request for bids has passed.

T. All repair work performed on an existing intrastate pipeline transporting LNG, hazardous liquids, natural gas or other gas will comply with the provisions of this Article.

U. The Commission may waive compliance with any of the aforementioned parts upon a finding that such a waiver is in the interest of public and pipeline safety.

V. To ensure compliance with provisions of this rule the Commission or an authorized representative thereof may enter the premises of an operator of an intrastate pipeline to inspect and investigate the property, books, papers, business methods, and affairs that pertain to the pipeline system operation.

W. All other Commission administrative rules are superseded to the extent they are in conflict with the pipeline safety provisions of this Article.

R14-5-203. Pipeline Incident Reports and Investigations

A. Applicability. This rule applies to all intrastate pipeline systems.

B. Required incident reports by telephone:

1. Operators of an intrastate pipeline transporting LNG, natural gas or other gas will notify by telephone the Office of Pipeline Safety immediately upon discovery of the occurrence of any of the following:

a. The release of natural gas, other gas or liquefied natural gas (LNG) from a pipeline or LNG facility, when any of the following results:

i. Death or personal injury requiring hospitalization.

ii. An explosion or fire not intentionally set by the operator.

iii. Property damage, including the value of the gas lost, estimated in excess of \$5,000.

b. Emergency transmission pipeline shutdown.

c. News media inquiry.

d. Overpressure of a pipeline system where a pipeline operating at less than 12 PSIG exceeds MAOP by 50%, where a pipeline operating between 12 PSIG and 60 PSIG exceeds MAOP by 6 PSIG or where a pipeline operating over 60 PSIG exceeds MAOP plus 10%.

e. Permanent or temporary discontinuance of gas service to a master meter system or when assisting with the isolation of any portion of a gas master meter system due to a failure of a leak test.

- f. Emergency shutdown of a LNG process or storage facility.
2. Operators of an intrastate pipeline transporting hazardous liquid will notify by telephone the Office of Pipeline Safety immediately upon discovery of the occurrence of any of the following:
- a. Death or personal injury requiring hospitalization.
 - b. An explosion or fire not intentionally set by the operator.
 - c. Property damage estimated in excess of \$5,000.
 - d. Pollution of any land, stream, river, lake, reservoir, or other body of water that violates applicable environmental quality, water quality standards, causes a discoloration of the surface of the water or adjoining shoreline, or deposits sludge or emulsion beneath the surface of the water or upon adjoining shorelines.
 - e. News media inquiry.
 - f. Release of 5 gallons (19 liters) or more of hazardous liquid or carbon dioxide, except that no report is required for a release of less than 5 barrels (0.8 cubic meters) resulting from a pipeline maintenance activity if the release is:
 - i. Not otherwise reportable under this Section;
 - ii. Not one described in 49 CFR 195.52(a)(4) (1994 revision and no future revisions), incorporated by reference and copies available from the Office of Pipeline Safety, 2200 North Central Avenue, Suite 300, Phoenix, Arizona 85004;
 - iii. Confined to company property or pipeline right-of-way; and
 - iv. Cleaned up promptly.

- g. Any release of hazardous liquid or carbon dioxide, that was significant in the judgment of the operator even though it did not meet the criteria of this subsection.

3. Telephone incident reports will include the following information:

- a. Name of the pipeline system operator,
- b. Name of the reporting party,
- c. Job title of the reporting party,
- d. The reporting party's telephone number,
- e. Location of the incident,
- f. Time of the incident, and
- g. Fatalities and injuries, if any.

C. Require written incident report:

- 1. Operators of an intrastate pipeline transporting natural gas, LNG or other gases will file a written incident report when an incident occurs involving a natural gas or other gas pipeline that results in any of the following:
 - a. An explosion or fire not intentionally set by the operator.
 - b. Injury to a person that results in one or more of the following:
 - i. Death.
 - ii. Loss of consciousness.
 - iii. Need for medical treatment requiring hospitalization.
 - c. Property damage, including the value of the lost gas, estimated in excess of \$5,000.
 - d. Emergency transmission pipeline shutdown.

- e. Overpressure of a pipeline system where a pipeline operating at less than 12 PSIG exceeds MAOP by 50%, where a pipeline operating between 12 PSIG and 60 PSIG exceeds MAOP by 6 PSIG or where a pipeline operating over 60 PSIG exceeds MAOP plus 10%.
 - f. Emergency shutdown of a LNG process or storage facility.
2. Written incident reports concerning natural gas or other gas pipeline systems will be in the following form:
- a. RSPA F7100.1 - Distribution System: Incident Report, (March, 2004 Revision and no future revisions) incorporated by reference and copies available from the Office of Pipeline Safety, 2200 North Central Avenue, Suite 300, Phoenix, Arizona 85004.
 - b. RSPA F7100.2 - Transmission and Gathering System: Incident Report, (January, 2002 Revision and no future revisions) incorporated by reference and copies available from the Office of Pipeline Safety, 2200 North Central Avenue, Suite 300, Phoenix, Arizona 85004.
 - c. Written incident reports with respect to LNG facilities will be in an investigative form defining the incident and corrective action taken to prevent a reoccurrence.
3. Operators of an intrastate pipeline transporting hazardous liquid will make a written incident report on RSPA F 7000-1, (January 2001 Revision and no future revisions), incorporated by reference, and copies available from the Office of Pipeline Safety, 2200 North Central Avenue, Suite 300, Phoenix, Arizona 85004, when there is a release of hazardous liquid which results in any of the following:

- a. An explosion or fire not intentionally set by the operator.
 - b. Injury to a person that results in one or more of the following:
 - i. Death.
 - ii. Loss of consciousness.
 - iii. Inability to leave the scene of the incident unassisted.
 - iv. Need for medical treatment.
 - v. Disability which interferes with a person's normal daily activities beyond the date of the incident.
 - c. Release of 5 gallons (19 liters) or more of hazardous liquid or carbon dioxide, except that no report is required for a release of less than 5 barrels (0.8 cubic meters) resulting from a pipeline maintenance activity if the release is:
 - i. Not otherwise reportable under this Section;
 - ii. Not one described in 49 CFR 195.52 (a)(4); (1994 revision and no future revisions), incorporated by reference and copies available from the Office of Pipeline Safety, 2200 North Central Avenue, Suite 300, Phoenix, Arizona 85004;
 - iii. Confined to company property or pipeline right-of-way; and
 - iv. Cleaned up promptly.
 - d. Estimated property damage, including cost of clean-up and recovery, value of lost product, and damage to the property of the operator or others, or both, exceeding \$5,000.
 - e. News media inquiry.
4. Written incident reports as required in this Section will be filed with the Office of

Pipeline Safety, within the time specified below:

- a. Natural gas, LNG or other gas - within 20 days after detection.
 - b. Hazardous liquids - within 15 days after detection.
5. The Operators shall also file a copy of all DOT required written incident reports with the Information Resources Manager, Office of Pipeline Safety, ~~Research and Special Programs Administration~~ Pipeline and Hazardous Materials Safety Administration, Room 7128, U.S. Department of Transportation, Washington, DC 20590.
6. Operators of a natural gas or other gas pipeline system will request a clearance from the Office of Pipeline Safety prior to turning on or reinstating service to a master meter operator.

D. Investigations by the Commission:

1. The Office of Pipeline Safety will investigate the cause of incidents resulting in death or serious injury.
2. Pursuant to an investigation under this rule, the Commission, or an authorized agent thereof, may:
 - a. Inspect all plant and facilities of a pipeline system.
 - b. Inspect all other property, books, papers, business methods, and affairs of a pipeline system.
 - c. Make inquiries and interview persons having knowledge of facts surrounding an incident.
 - d. Attend, as an observer, hearings and formal investigations concerning pipeline system operators.

- e. Schedule and conduct a public hearing into an incident.
3. The Commission may issue subpoenas to compel the production of records and the taking of testimony.
4. Incidents not reported in accordance with the provisions of this rule will be investigated by the Office of Pipeline Safety.
5. Incidents referred to in incomplete or inaccurate reports will be investigated by the Office of Pipeline Safety.
6. Late filed incident reports will be accompanied by a letter of explanation. Incidents referred to in late filed reports may be investigated by the Office of Pipeline Safety.

R14-5-204. Annual Reports

- A. Except for operators of an intrastate pipeline transporting LNG, all other intrastate pipeline operators will file with the Office of Pipeline Safety, not later than March 15, for the preceding calendar year, the following appropriate report(s):
 1. RSPA F 7000-1.1 (February 2004 Edition and no future editions) – “Annual Report for calendar year 20__ , hazardous liquid or carbon dioxide systems” and “Instructions for completing RSPA F 7000-1.1 Annual Report for calendar year 20__ hazardous liquid or carbon dioxide systems incorporated by reference, and copies available from the Office of Pipeline Safety, 2200 North Central Avenue, Suite 300, Phoenix, Arizona 85004 and the Information Resources Manager, Office of Pipeline Safety, Pipeline and Hazardous Materials Safety Administration, U.S. Department of Transportation, Room ~~2335~~ 7128 400 Seventh Street, S.W., Washington, DC 20590.
 2. RSPA F7100.1-1 (~~November 1985 Edition for use in 2004;~~ March 2005 Edition

and no future editions, ~~which can be used in 2004 but will become mandatory starting in 2005~~) "Annual Report for Calendar Year 20___, Gas Distribution System" and "Instructions for Completing RSPA Form F7100.1-1, Annual Report for Calendar Year 20___, Gas Distribution System", incorporated by reference, and copies available from the Office of Pipeline Safety, 2200 North Central Avenue, Suite 300, Phoenix, Arizona 85004 and the Information Resources Manager, Office of Pipeline Safety, ~~Research and Special Programs Administration,~~ Pipeline and Hazardous Materials Safety Administration, U.S. Department of Transportation, Room ~~8417~~ 7128, 400 Seventh Street, S.W., Washington, D.C. 20590.

3. RSPA F7100.2-1 (December 2003 Edition and no future editions) - "Annual Report for Calendar Year 20___, Gas Transmission and Gathering Systems" and "Instructions for Completing Form RSPA F7100.2-1, Annual Report for Calendar Year 20___, Gas Transmission and Gathering Systems", incorporated by reference, and copies available from the Office of Pipeline Safety, 2200 North Central Avenue, Suite 300, Phoenix, Arizona 85004 and the Information Resources Manager, Office of Pipeline Safety, ~~Research and Special Programs Administration~~ Pipeline and Hazardous Materials Safety Administration, U.S. Department of Transportation, Room ~~8417~~ 7128, 400 Seventh Street, S.W., Washington, D.C. 20590.

- B. The operator will also file a copy of all required annual reports by March 15 to the Information Resources Manager, Office of Pipeline Safety, ~~Research and Special Programs Administration~~ Pipeline and Hazardous Materials Safety Administration, U.S. Department of Transportation, Room 7128, 400 Seventh Street S.W., Washington, D.C. 20590-0001.

R14-5-205. Master Meter System Operators

- A. Applicability. This rule applies to the construction, reconstruction, repair, emergency procedures, operation and maintenance of all master meter systems, as a condition of receiving service from public service corporations. Noncompliance with this rule by operators of a master meter system shall constitute grounds for termination of service by the public service corporation when informed in writing by the Office of Pipeline Safety. In case of an emergency, the Office of Pipeline Safety may give the public service corporation oral instructions to terminate service, with written confirmation to be furnished within 24 hours.
- B. Subject to the definitional changes in R14-5-201 and the revisions noted in subsection (C), the Commission adopts, incorporates, and approves as its own 49 CFR 191 and 192, revised as of ~~January 15, 2004~~ August 1, 2006 (and no future amendments), incorporated by reference, and copies available from the Office of Pipeline Safety, 2200 North Central Avenue, Suite 300, Phoenix, Arizona 85004 and the United States Government Printing Office, P.O. Box 371954, Pittsburgh, Pennsylvania 15250-7954.
- C. The above mentioned incorporated parts of 49 CFR, except Part 191, are revised as follows:
1. Substitute "Commission" where "Administrator of the Research and Special Programs Administration," or "Office of Pipeline Safety" (OPS) appear.
 2. Substitute Office of "Pipeline Safety, Arizona Corporation Commission, at its office in Phoenix, Arizona" where the address for the Information Resources Manager, Office of Pipeline Safety, ~~Research and Special Programs Administration~~ Pipeline and Hazardous Materials Safety Administration, U.S. Department of Transportation appears.

- D.** Operators of a master meter system will establish an Operation and Maintenance Plan (O & M) including an emergency plan. The plans must be maintained at the master meter system location.
- E.** Operators of a master meter system will not construct any part of a natural gas or other gas system under a building or permit a building to be placed over a pipeline. Within 180 days of discovery of a building being located over a pipeline, the operator shall remove the building from over the pipeline, relocate the pipeline or discontinue the service to the pipeline located under the building.
- F.** Operators of a master meter system will not install Acrylonitrile-Butadiene-Styrene (ABS) or aluminum pipe in their systems.
- G.** Operators of a master meter system will not use solvent cement to join together plastic pipe manufactured from different materials unless the operator utilizes a joining procedure in accordance with the specifications of 49 CFR 192, Subpart F, **January 15, 2004 August 1, 2006** (and no future amendments), incorporated by reference, and copies available from the Office of Pipeline Safety, 2200 North Central Avenue, Suite 300, Phoenix, Arizona 85004 and the United States Government Printing Office, P.O. Box 371954, Pittsburgh, Pennsylvania 15250-7954.
- H.** Operators of a master meter system that construct a pipeline or any portion thereof using plastic pipe will install, at a minimum, a 14-gauge coated or corrosion resistant, electrically conductive wire as a means of locating the pipe while it is underground. Tracer wire shall not be wrapped around the plastic pipe, tracer wire may be taped, or attached in some manner to the pipe provided that the adhesive or the attachment is not detrimental to the integrity of the pipe wall.

- I. Operators of a master meter system that construct an underground pipeline using plastic pipe, will bury the installed pipe with a minimum of 6 inches of sandy type soil surrounding the pipe for bedding and shading, free of any rock or debris, unless otherwise protected and approved by the Office of Pipeline Safety. Steel pipe shall be installed with bedding and shading, free of any debris or materials injurious to the pipe coating, unless otherwise protected and approved by the Office of Pipeline Safety.
- J. Operators of a master meter system that construct an underground pipeline using plastic pipe will install the pipe with sufficient slack to allow for thermal expansion and contraction. In addition, all plastic pipe and fittings shall be marked CD, CE, CF or CG as required by ASTM D2513 (1995c Edition and no future editions), incorporated by reference, and copies available from the Office of Pipeline Safety, 2200 North Central Avenue, Suite 300, Phoenix, Arizona 85004 and ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, Pennsylvania 19428-2959, for areas where the service temperature is above 100°F.
- K. Operators of a master meter gas system shall qualify welding procedures and shall perform welding of steel pipelines in accordance with API Standard 1104. Each welder must be qualified in accordance with API Standard 1104, 49 CFR 192, appendix A.
- L. All repair work performed on existing master meter systems will comply with the provisions of this Article.
- M. Operators of a master meter system will not construct any part of a natural gas or other gas system closer than 8 inches to any other underground structure.
- N. Operators of a master meter system will file a Notice of Construction 30 days prior to commencement of the construction of any pipeline. The Notice will contain the following

information:

1. The dates of construction,
 2. The size and type of pipe to be used,
 3. The location of construction, and
 4. The Maximum Allowable Operating Pressure (MAOP).
- O.** Operators of a master meter system will perform leakage surveys at intervals not exceeding 15 months but at least once each calendar year and will survey and grade all detected leakage by the following guide -- ASME Guide for Gas Transmission and Distribution Pipeline System, Guide Material, Appendix G-11-1983 (1983 Revision and no future revisions), except 4.4(c), incorporated by reference, and copies available from the Office of Pipeline Safety, 2200 North Central Avenue, Suite 300, Phoenix, Arizona 85004 and the ASME, United Engineering Center, 345 East 47th Street, New York, New York 10017. ("Should" as referenced in the guide will be interpreted to mean "shall".) Leak detection procedures shall be approved by the Office of Pipeline Safety.
- P.** Laboratory testing of master meter systems shall be conducted in accordance with the following:
1. If an operator of a master meter system, other gas or hazardous liquid pipeline removes a portion of a failed pipeline, where the cause of the failure is unknown, as the result of an incident that requires a telephonic or written incident report under R14-5-203(B) or (C), the operator shall retain the portion that was removed and shall telephonically notify the Office of Pipeline Safety of the removal within two hours after the removal is completed. A notice made pursuant to this subsection shall include all of the following:

- a. Identity of the failed pipeline,
 - b. Description and location of the failure,
 - c. Date and time of the removal,
 - d. Length or quantity of the removed portion,
 - e. Storage location of the removed portion,
 - f. Any additional information about the failure or the removal of the portion of the pipeline that failed that is requested by the Office of Pipeline Safety. An unknown failure is any failure where the cause of the failure is not observable external corrosion, third-party damage, natural or other outside forces, construction or material defect, equipment malfunction or incorrect operations; or is any failure where the Office of Pipeline Safety and the operator do not agree as to the cause of the failure.
2. Within 48 hours after telephonic notification pursuant to subsection (1), the Office of Pipeline Safety shall notify the operator that either:
- a. The Office of Pipeline Safety is directing the operator to have the portion of the pipeline that was removed tested by a laboratory to determine the cause or causes of the failure.
 - b. The Office of Pipeline Safety is not directing laboratory testing and the operator may discard the portion of the pipeline that was removed. The Office of Pipeline Safety shall confirm its notification in writing.
3. If the Office of Pipeline Safety directs laboratory testing pursuant to subsection (2)(a):
- a. The Office of Pipeline Safety shall:

- i. Determine the laboratory that will do the testing pursuant to subsection (4) and the period of time within which the testing is to be completed.
 - ii. Approve the number and types of tests to be performed.
 - iii. Notify the operator of its determinations pursuant to subsections (3)(a)(i) and (ii).
 - b. The operator shall:
 - i. Notify the Office of Pipeline Safety of the number and types of tests proposed by the operator.
 - ii. Notify the Office of Pipeline Safety of the date and time of any laboratory tests at least 20 days before the tests are done.
 - iii. At the request of the Office of Pipeline Safety, ensure that a representative of the Office of Pipeline Safety is permitted to observe any or all of the tests.
 - iv. Ensure that the original laboratory test results are provided to the Office of Pipeline Safety within 30 days of the completion of the tests.
 - v. Pay for the laboratory testing.
4. In determining a laboratory pursuant to subsection (3)(a)(i), the Office of Pipeline Safety shall:
 - a. Submit a written request to at least three different laboratories for bids to conduct the testing.
 - b. Consider the qualifications of the respondent laboratories to perform the

testing, including:

- i. Past experience in performing the required test or tests according to ASTM International standards.
 - ii. Any recognition that the laboratory may demonstrate with national or international laboratory accreditation bodies.
- c. Select the laboratory that offers the optimum balance between cost and demonstrated ability to perform the required test or tests.
- d. The Office of Pipeline Safety shall not select a laboratory pursuant to this subsection before either of the following, which ever occurs first:
- i. The Office of Pipeline Safety has received written bids from at least three different laboratories.
 - ii. Thirty days from the date of the request for bids has passed.
- Q.** Operators of a master meter system will file an annual report with the Commission on Commission Form 1-90/15M (1990 Edition and no future editions), "Annual Report for Calendar Year 20___, Small Operators of Gas Distribution System," incorporated by reference, and copies available from the Office of Pipeline Safety, 2200 North Central Avenue, Suite 300, Phoenix, Arizona 85004. This report will be filed with the Office of Pipeline Safety not later than April 15 for the preceding calendar year.
- R.** The Commission may waive compliance with any of the aforementioned parts upon a finding that such a waiver is in the interest of public safety.
- S.** To ensure compliance with provisions of this rule, the Commission or an authorized representative thereof, may enter the premises of an operator of a master meter system to

inspect and investigate the property, books, papers, business methods, and affairs that pertain to the operation of the master meter system.

- T. All other Commission administrative rules are superseded to the extent they are in conflict with the pipeline safety provisions of this Article.

**ECONOMIC, SMALL BUSINESS AND CONSUMER IMPACT STATEMENT
PER A.R.S. § 41-1055**

1. **BRIEF DESCRIPTION:** These amendments will amend already existing rules (R14-5-202, R14-5-203, R-14-5-204 and R14-5-205) under Chapter 5 entitled "Transportation". The proposed amendments to the existing rules are designed to update the Arizona Corporation Commission Pipeline Safety rules to recognize the amendments to the Code of Federal Regulations (CFR), Title 49, Parts 40, 191, 192, except I (2) and (3) of Appendix D to Part 192, 193, 195 (except 195.1(b)(2) and (3)) and 199 revised as of October 1, 2005.

2. **NEED:** The Commission has been granted agent status allowing it to enforce the Federal Pipeline Safety Standards. To maintain that status the Commission must, pursuant to the Natural Gas Pipeline Safety Act and the Hazardous Liquid Pipeline Safety Act, adopt and keep current with the Federal Pipeline Safety Standards. The Commission believes that through the adoption and incorporating by reference of CFR Title 49 updates, the rules will be consistent with the Federal Regulations and will enhance public safety which will be in the best interest of all citizens' in the State of Arizona.

3. **NAME AND ADDRESS OF AGENCY EMPLOYEE WHO MAY BE CONTACTED TO SUBMIT ADDITIONAL DATA ON THE INFORMATION INCLUDED IN THIS STATEMENT:**

Robert E. Miller, Interim Supervisor, Office of Pipeline Safety
Arizona Corporation Commission
2200 N. Central Avenue, Suite 300
Phoenix, Arizona 85004
Telephone Number (602) 262-5601; Fax Number (602) 262-5620

4. **AFFECTED CLASSES OF PERSONS:**

- A. Operators of master meter gas distribution systems.
- B. Intrastate operators of natural gas and other gas pipelines.
- C. Intrastate operators of hazardous liquid pipelines.

5. **RULE IMPACT ON AFFECTED CLASSES OF PERSONS:**

- A. There will be no impact on master meter system operators if they are already complying with current Federal Pipeline Safety Regulations.
- B. There will be a minimum (operators other than Southwest Gas) to moderate impact (estimated to be over \$1 million but less than \$5 million for Southwest Gas) on operators of natural gas or other gas systems if they are already complying with current Federal Pipeline Safety Regulations.
- C. There will be no impact on operators of hazardous liquid pipelines if they are already complying with current Federal Pipeline Safety Regulations.

6. **COST AND BENEFITS TO THE AGENCY:** The proposed amendments to the existing rules will have a minimal cost effect on the Commission and will have no impact on other state agencies. The Commission will benefit by maintaining agent status in keeping current with the Federal Pipeline Safety Standards. The Commission believes that by amending the existing rules, the rules will be consistent with the Federal Regulations and will enhance public safety which will be in the best interest of all citizens' in the State of Arizona.

7. **COST AND BENEFITS TO POLITICAL SUBDIVISIONS:** For those political subdivisions that are operators of intrastate pipelines or master meter operators, there will be little impact if they are already complying with the Federal Pipeline Safety Regulations.

8. **COST AND BENEFITS TO PRIVATE PERSONS:** The proposed amendments to the existing rules will have no effect upon private persons or users of the gas service provided by regulated public utilities as they presently are required to be in compliance with all standards, but, this will benefit consumers, users and the general public by enhancing the safe operation and maintenance of pipeline systems.

9. **COST AND BENEFITS TO CONSUMERS OR USERS OF ANY PRODUCT OR SERVICE IN THE IMPLEMENTATION OF THE NEW RULES:**

The proposed amendments to the existing rules should have a minimal impact on consumers or users of the gas service provided by regulated public utilities. As major utilities such as Southwest Gas come to the ACC for future rate cases, they will include some increased costs due to complying with the new federal regulations. On the other hand, it is impossible to forecast the exact impact on final rates of any one issue at this time. The utilities are presently required to be in compliance with all standards, but, the new regulations will benefit consumers, users and the general public by enhancing the safe operation and maintenance of pipeline systems.

10. **LESS COSTLY OR INTRUSIVE METHODS:** The amendments to the rules are the least costly method for obtaining compliance with the minimum safety standards. There is no less intrusive method.

11. **ALTERNATIVE METHODS CONSIDERED:** There are no alternative methods available that ensure the public health and safety to the degree the proposed amendments ensure.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28

BEFORE THE ARIZONA CORPORATION COMMISSION

JEFF HATCH-MILLER
Chairman
WILLIAM A. MUNDELL
Commissioner
MIKE GLEASON
Commissioner
KRISTIN K. MAYES
Commissioner
BARRY WONG
Commissioner

IN THE MATTER OF THE PROPOSED
AMENDMENTS TO THE PIPELINE
SAFETY RULES R14-5-202, R14-5-203,
R14-5-204 AND R14-5-205

) DOCKET NO. RG-00000A-06-0648
) DECISION NO. _____
) ORDER

Open Meeting
Phoenix, Arizona

BY THE COMMISSION:

FINDINGS OF FACT

1. Staff of the Safety Division ("Staff") of the Arizona Corporation Commission ("Commission") is proposing amendments to transportation rules R14-5-202, R14-5-203, R14-5-204, and R14-5-205. The amendments will update the rules to incorporate the most recent amendments to the Code of Federal Regulations ("CFR"), Title 49, Parts 191, 192, 193, 195, 199 and Part 40. R14-5-202(B), (J), (K), R14-5-204 (A)(2), R14-5-205(B), (G).

2. In addition, the amended pipeline safety rules will update the name and location of the Federal Office of Pipeline Safety to Pipeline and Hazardous Materials Safety Administration, Room 7128, U.S. Department of Transportation, Washington, D.C. 20590. R14-5-202(C)(2), R14-5-203(C)(5), R14-5-204(A)(1), (A)(2), (A)(3), (B) and R14-5-205(C)(2).

3. The proposed amendments will conform to the most recent amendments of the Federal Pipeline Safety Regulations, which is required by the Commission's Agreement with the

1 United States Department of Transportation, Office of Pipeline Safety, and require for the
2 Commission's Pipeline Safety Group to receive Federal funds for Pipeline Safety Programs. Staff
3 believes that the proposed amendments will be beneficial to the general public by maintaining the
4 safe operation of pipeline facilities.

5 4. Staff has recommended that the Commission direct the Hearing Division to issue a
6 Procedural Order setting a public comment hearing on the proposed rules and setting the dates for
7 public comment proceedings in Phoenix.

8 CONCLUSIONS OF LAW

9 1. Pursuant to Article XV of the Arizona Constitution and A.R.S. Title 40 generally,
10 the Commission has authority in this matter.

11 2. It is in the public interest to issue a Procedural Order in this matter, as requested by
12 Staff.

13 ORDER

14 IT IS THEREFORE ORDERED that the Hearing Division issue a Procedural Order
15 scheduling a public comment proceeding.

16 ...
17 ...
18 ...
19 ...
20 ...
21 ...
22 ...
23 ...
24 ...
25 ...
26 ...
27 ...
28 ...

BY THE ORDER OF THE ARIZONA CORPORATION COMMISSION

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28

CHAIRMAN	COMMISSIONER	COMMISSIONER
COMMISSIONER	COMMISSIONER	

IN WITNESS WHEREOF, I BRIAN C. McNEIL, Executive Director of the Arizona Corporation Commission, have hereunto, set my hand and caused the official seal of this Commission to be affixed at the Capitol, in the City of Phoenix, this _____ day of _____, 2006.

BRIAN C. McNEIL
Executive Director

DISSENT: _____

DISSENT: _____

SERVICE LIST FOR:
DOCKET NO. RG-00000A-06-0648

Mr. Ernest G. Johnson
Director, Utilities Division
Arizona Corporation Commission
1200 West Washington
Phoenix, Arizona 85007

Mr. Christopher C. Kempley
Chief Counsel
Arizona Corporation Commission
1200 West Washington
Phoenix, Arizona 85007

1	Docket Control	Mr. Gary Powell
2	Arizona Corporation Commission	Manager
3	1200 West Washington Street	Amerigas Terminal
	Phoenix, Arizona 85007	14702 West Olive Avenue
4	Robert Miller	Waddell, Arizona 85355
	Arizona Corporation Commission	Mr. Jack McBride
5	Safety Division	Copper Market Incorporated
	2200 N. Central Avenue, Suite 300	c/o Cyprus Bagdad Copper Company
6	Phoenix, AZ 85004	Post Office Box 245
		Bagdad, Arizona 86321
7	Mr. Charles G. Taylor, Jr., President & CEO	Mr. Jim Vescio
	Local Gateway Exchange, Inc.	Station Manager
8	700 North Pearl, Suite 200	Swissport Fueling Inc.
	Dallas, Texas 75201	4200 East Airplane Drive
9	Ms. Connie Wightman	Phoenix, Arizona 85034
	Technologies Management, Inc.	Mr. Jack Shilling
10	210 North Park Avenue	General Manager
11	Winter Park, Florida 32789	Duncan Rural Service Cooperative
		Post Office Box O
12	Mr. Steve Williams	Duncan, Arizona 85534
	Plant Manager	Mr. Dennis Lloyd
13	Arizona Public Service Company	Manager, Compliance
	Post Office Box 53999	El Paso Natural Gas Company
14	Mail Station 4120	5151 East Broadway, Suite 1680
	Phoenix, Arizona 85072-3999	Tucson, Arizona 85711
15	Mr. Larry Daniel	Mr. Steve Lines
	Customer Construction Dept. Leader	General Manager
16	Arizona Public Service Company	Graham County Utilities, Inc.
17	Post Office Box 53999	Post Office Drawer B
	Mail Station 3015	Pima, Arizona 85543
18	Phoenix, Arizona 85072-3999	Mr. Gerald Paulus
	Mr. Martin Roush	Gas Manager
19	City Manager	City of Mesa
	City Of Benson	Post Office Box 1466
20	Post Office Box 2223	Mesa, Arizona 85211-1466
	Benson, Arizona 85602	Mr. Ken Mecham
21	Gail Robinson	Director
	Southwest Gas Corporation	Gila Resources
22	Post Office Box 1028	Post Office Box 272
	Page, Arizona 86040	Safford, Arizona 85548
23	Mr. Doug Mann	Mr. Gary Smith
	Manager	Vice President
24	Energy West Arizona	Unisource Energy
	200 West Overland	1300 South Yale Street
25	Payson, Arizona 85541	Flagstaff, Arizona 86001
26		
27		
28		

1	Mrs. Debra Jacobson Manager Regulatory Affairs Southwest Gas Corporation Post Office Box 98510 Las Vegas, Nevada 89193-8510	Tucson Electric Power Legal Department – DB203 220 West 6 th Street Post Office Box 711 Tucson, Arizona 85072
4	Mr. Ryan Benavides Department of Public Services and Works City of Wilcox 250 N. Railroad Avenue Wilcox, Arizona 85643	Mr. David Martin Association of General Contractors 1825 West Adams Phoenix, Arizona 85007
7	Mr. Steve Barlett Manager Applied LNG Technologies 8101 North 34 th Street Amarillo, Texas 79121	Mr. Clark Tartar and Mr. Frank Harris Arizona Pipeline Company 3111 West Lincoln Street Phoenix, Arizona 85009
10	Mr. Jay Bowcutt Vice President/General Manager Nucor Steel Utah Post Office Box 100 Plymouth, Utah 84330	Mr. Jim Gholson Northern Pipeline Construction Co 3024 West Weldon Avenue Phoenix, Arizona 85017
13	Mr. Jack Williams Pinalco Aerospace Aluminum 6833 West Willis Road Box 5050 Chandler, Arizona 85226	Mr. Walt Jones Henkles and McCoy, Inc. 21601 North 3 rd Avenue Phoenix, Arizona 85027-2907
16	Pinal County Building Inspections Queen Creek, Magma Gas Area Building Safety Division Post Office Box 827 31 North Pinal St. Bldg. D Florence, Arizona 85232	City of Mesa Building Inspections Post Office Box 1466 Mesa, Arizona 85211-1466
20	Mr. Greg Merdick Cox Communication Community Relations 1550 W. Deer Valley Rd. Phoenix, Arizona 85027	ASARCO Incorporated c/o Webb Crockett, Esq. Fennemore Craig 3003 North Central Avenue, Suite 2600 Phoenix, Arizona 85012
23	Chris Dyrek Cable America 4120 E. Valley Auto Dr. Mesa, AZ 85206	The Arizona Utility Group c/o Kevin Kent City of Mesa Post Office Box 1466 Mesa, Arizona 85211-1466
26	Jones Intercable Regulatory Division 8251 North Cortaro Road Tucson, Arizona 85743-9599	Mr. John H. Shorbe, Sr. Southern Arizona Home Builders Association 2840 North Country Club Road Tucson, Arizona 85716
28		Mr. John Rueter Park Manager Canyon Valle Airpark 801 South State Route 64, Space 100 Williams, Arizona 86406

1	Mr. Bryan Jaconi Manager	Mr. Lyle Iedje Manager, Pipeline Operations
2	Havasu Springs Resort	Calpine Pipeline Company
3	2581 Highway 95 Parker, Arizona 85344	60 River Road Rio Vista, California 94571
4	Mr. Rus Brock Deputy Director	Mr. Justin B. Jessop Gas Department Supervisor
5	HBACA	Colorado City Gas
6	2111 East Highland, Suite 190 Phoenix, Arizona 85016	Post Office Box 840809 Hildale, Utah 84784
7	Mr. Glen Myers Manager	Dr. Peter M. Belleto Superintendent
8	Ikard and Newsom	Ganado Unified Scholl District No. 20
9	Post Office Box 217 Flora Vista, New Mexico 87415	Post Office Box 1757 Ganado, Arizona 86505
10	Mr. Tom Yazzi Superintendent of Schools	Paul Lopez DOT Field Compliance
11	Kayenta School District No. 27	El Paso Natural Gas Company
12	Post Office Box 9000 Window Rock, Arizona 86515	P.O. Box 1087 Colorado Springs, CO 80904
13	Ms. Janet Slowman Chee Superintendent of Schools	
14	Red Mesa Unified School District No. 27	
15	HCR 6100, Box 40 Teec Nos Pos, Arizona 86514	
16	Dr. Hector G. Tahu Superintendent of Schools	
17	Tuba City Unified School District No. 15	
18	Post Office Box 67 Tuba City, Arizona 86045	
19	Mr. Donimic Antignano President	
20	Zapco Energy Tactics Corporation	
21	1420 - D Church Street Bokemia, New York 11716	
22	Mr. Ray Vernon Superintendent	
23	Pinon Unified School District No. 4	
24	Post Office Box 839 Pinon, Arizona 85610	
25	Mr. David A. Salyers Abbott RPD Manager	
26	Utility & Facility Manager	
27	Abbott Labs	
28	1250 West Maricopa Highway Casa Grande, Arizona 85222	