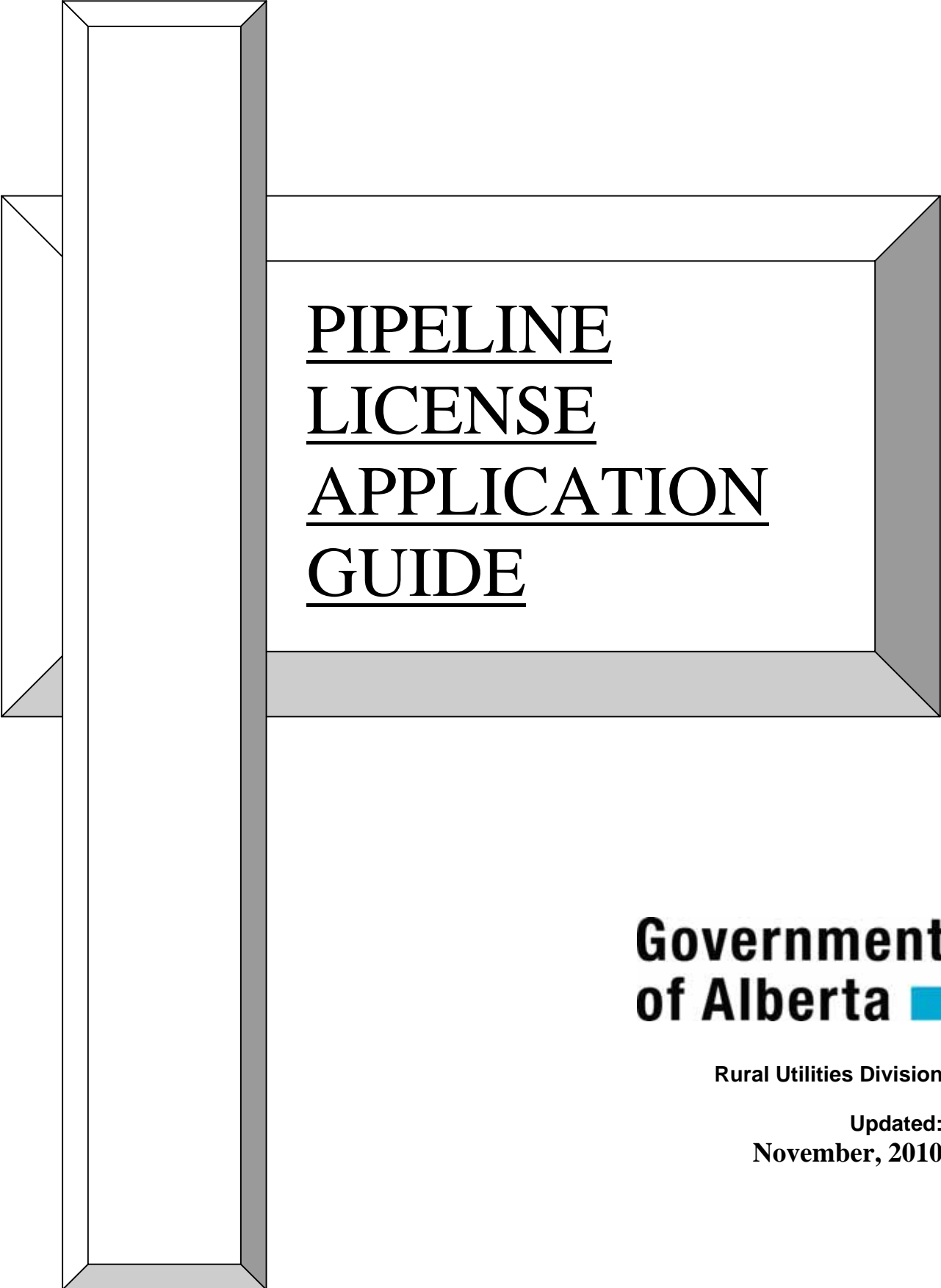


Appendix E PLA Guide



October 2012



PIPELINE
LICENSE
APPLICATION
GUIDE

**Government
of Alberta** ■

Rural Utilities Division

Updated:
November, 2010

INTRODUCTION:

This guide has been compiled to assist the users of the Pipeline License Data Form, also referred to as a "PLA" form.

The form layout is divided into five general areas as shown on the sample PLA form, page 1.

Part 1 of the guide deals with completing the PLA form and is sectioned according to the five general areas of the form.

Part 2 of the guide deals with examples of amendments to licenses. There are four example cases that deal with the situations that appear to cause some confusion among users of the PLA form.

Case A	Covers abandonment of part of a line
Case B	Covers relocation to the end of a line
Case C	Covers relocation to the center portion of a line
Case D	Covers relocation of the beginning of a line

The appendix is a reference to the tables used in completing the PLA form (Part 1 of the guide).

If a user requires additional information or assistance regarding the Pipeline License Data Form, please contact:

Rural Utilities Division
Room 202, J.G. O'Donoghue Building
7000 - 113 Street
Edmonton, Alberta
T6H 5T6
Phone: 780-427-0125

GENERAL NOTES:

1. The characteristics that determine individual line numbers are:
 - a) A change to any of the pipe specification spaces regarding the pipeline

AND/OR

- b) A change in the direction of flow
2. The year indicated for line numbers on the PLA form is indicated by the last two digits of the actual construction year.
3. As a rule of thumb in regards to abandoned lines:
 - a) "Facility" codes should be indicated as "BE" to "BE" or "PL" to "BE"
 - b) "Operating Pressure" indicated as \emptyset (zero)
 - c) "Status" code indicated as "A" (abandoned)

PART I: COMPLETING THE FORM

A. GENERAL LICENSE DATA



PIPELINE LICENSE DATA
(FOR GAS DISTRIBUTION PIPELINES OPERATING AT 700 KILOPASCALS OR LESS)

PAGE _____ OF _____	
INFORMATION INSTRUCTION CODE	LICENSE NUMBER
ADD INFORMATION <input type="checkbox"/> CHANGE INFORMATION <input type="checkbox"/>	U

PAGE _____ OF _____

Enter the page number of the application form and the total number of pages comprising the application

LICENSE NUMBER	U
----------------	---

Enter license number

OR

Apply for a new license number from the Department

INFORMATION INSTRUCTION CODE
ADD INFORMATION <input type="checkbox"/> CHANGE INFORMATION <input type="checkbox"/>

Enter an "X" in the appropriate box to indicate if the application is for:

- Adding new information in a license

OR

- Change information in a license

Note:

- Add information means that all line numbers listed will be new to the license
- Change information means that all line numbers listed already exist in the license

B. GENERAL DISTRIBUTOR INFORMATION

DISTRIBUTOR			DISTRIBUTOR'S AGENT		
ADDRESS			ADDRESS		
CITY, TOWN OR VILLAGE		POSTAL CODE	CITY, TOWN OR VILLAGE		POSTAL CODE
SIGNATURE FOR LICENSE		DATE YY MM DD	PERSON TO CONTACT REGARDING LICENSE		TELEPHONE

DISTRIBUTOR	
ADDRESS	
CITY, TOWN OR VILLAGE	POSTAL CODE

Enter the distributor's full name and mailing address

DISTRIBUTOR'S AGENT	
ADDRESS	
CITY, TOWN OR VILLAGE	POSTAL CODE

If an agent is appointed to make the application on behalf of the distributor, then enter the agent's full name and mailing address

OR

If there is no agent, leave blank

SIGNATURE FOR LICENSE		DATE YY MM DD
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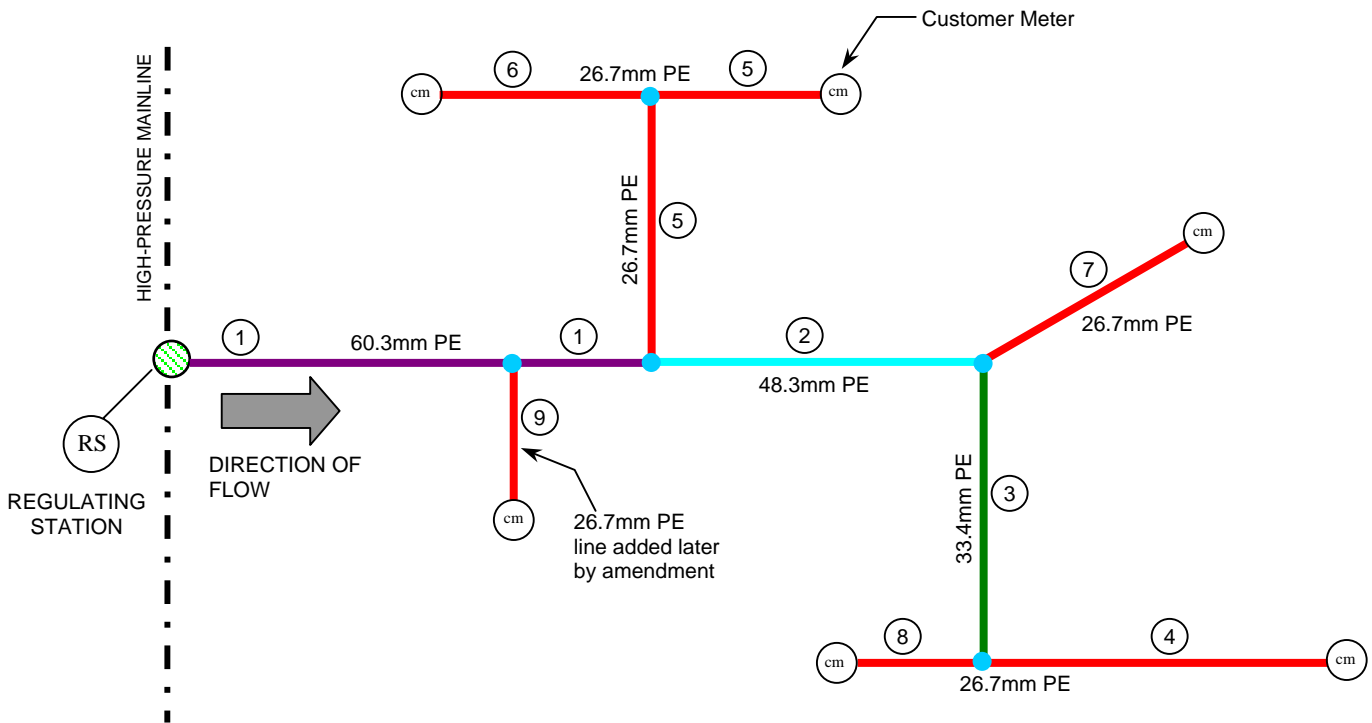
Enter the signature of an authorized representative of the distributor or agent and enter the date the application was signed

PERSON TO CONTACT REGARDING LICENSE	TELEPHONE
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Enter the name and telephone number of the representative of the distributor who may be contacted regarding the application

C. LOCATION DATA

LINE NO	FROM LOCATION					F C	TO LOCATION					F C	LENGTH (km)	OD (mm)	WALL THICKNESS (mm)	MATERIAL	TYPE	GRADE	MOP (kPa)	EXTERNAL COATING	JOINTS	STATUS	YEAR	
	LS	SEC	TWP	RGE	M		LS	SEC	TWP	RGE	M													



In the example shown above, line numbers are created by changes in the pipes outside diameter and direction of flow. Note that in the case of line number 1 the line number did not change when line number 9 was added on a later application

LINE NO

Enter the line numbers consecutively (up to a maximum of 999 per license and, where possible, in the direction of the flow). Each portion of a pipeline must be numbered sequentially with a "line number". The characteristics that determine individual line portions are changes in any one of the pipe specification spaces regarding a pipeline.

NOTE: Pipeline specification changes are not recorded for road crossings, canal crossings, and small creek crossings, therefore, separate line numbers are not necessary for these portions of a pipeline

FROM LOCATION				
LS	SEC	TWP	RGE	M

The "From" and "To" locations are to be filled in for all line numbers in all applications

Enter the legal description of the starting point of the line number according to the direction of flow

Format:

- LS - two digits
- Section - two digits
- Township - three digits
- Range - two digits
- Meridian - single digit

F C

Enter the facility code for the starting point of the line as determined from Table 1 (see Appendix)

In the example shown on page 4, the facility code for the start of line number 1 would be RS (regulator station)

TO LOCATION				
LS	SEC	TWP	RGE	M

Enter the legal description of the termination point of the line number

Use the same format as shown above for "FROM LOCATION"

F C

Enter the facility code for the termination point of the line as determined from Table 1 (see Appendix)

In the example shown on page 4, the facility code for the termination point of line number 1 would be PL (pipeline)

D. PIPE SPECIFICATIONS

LINE NO	FROM LOCATION					F C	TO LOCATION					F C	LENGTH (km)	OD (mm)		WALL THICKNESS (mm)		MATERIAL	TYPE	GRADE	MOP (kPa)	EXTERNAL COATING	JOINTS	STATUS	YEAR	
	LS	SEC	TWP	RGE	M		LS	SEC	TWP	RGE	M															

LENGTH (km)

Enter the length of the line in kilometres, to one decimal place (0.1 km=100 metres)

OD (mm)

Enter the outside diameter of the pipe in millimetres to one decimal place (see Table 8 in Appendix)

WALL THICKNESS (mm)

Enter the wall thickness of the pipe in millimetres to two decimal places (see Table 8 in Appendix)

MATERIAL

Enter the code for the material from which the pipe is made as determined from Table 2 (see Appendix)

TYPE

"TYPE" and "GRADE" are used to indicate the specifications of the material of the pipe

- For polyethylene pipe, enter the resin code as determined from Table 3 (see Appendix)
- For steel or aluminum pipe, enter the type code from Table 5 (see Appendix)

GRADE

- For polyethylene pipe, enter the extruder code as determined from Table 4 (see Appendix) followed by the SDR (Standard Dimension Ratio) number *[Note: The SDR number is entered as a whole number]*
- For steel or aluminum pipe, enter the grade code from Table 5 (see Appendix)

MOP (kPa)

Enter the maximum operating pressure of the pipeline in kiloPascals (kPa)

EXTERNAL COATING

If the pipe is externally coated, enter "Y"

OR

If the pipe is not coated, enter "N"

JOINTS

Enter the code for the type of joint used for the pipe as determined from Table 6 (see Appendix)

[Note: When more than one type of joint is used on a line, enter the code for the majority of joints]

STATUS

Enter the status code of the pipeline as determined from Table 7 (see Appendix)

YEAR

If adding information to a license, enter the last two digits of the year in which the line was constructed

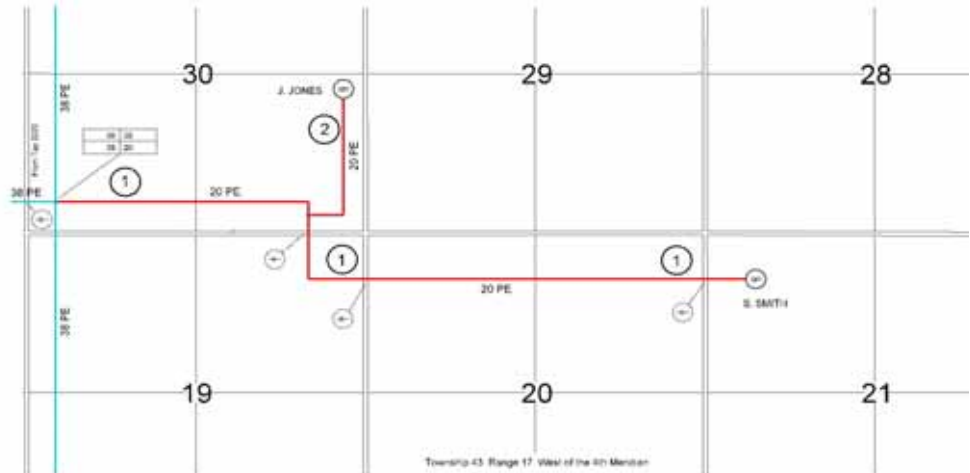
OR

If changing information to a license leave this space blank

PART 2: EXAMPLES OF AMENDMENTS TO LICENSES

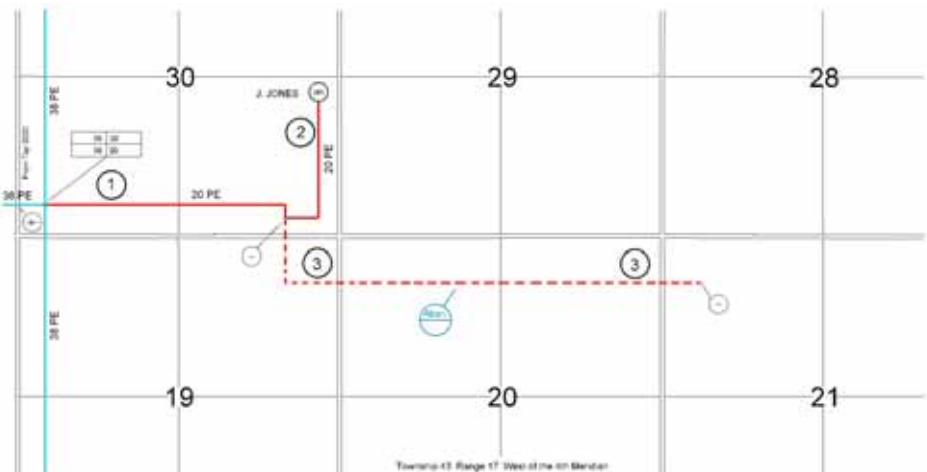
CASE A: ABANDONMENT OF PART OF A LINE

If the original line number 1 shown here was to be partially abandoned...



LINE NO	FROM LOCATION					F C	TO LOCATION					F C	LENGTH (km)	OD (mm)		WALL THICKNESS (mm)		MATERIAL	TYPE	GRADE	MOP (kPa)	EXTERNAL COATING	JOINTS	STATUS	YEAR
	LS	SEC	TWP	RGE	N		LS	SEC	TWP	RGE	M														
1	0'	30	04'	17	4	PL	1'	21	04'	17	4	CO	3.6	24	1	2	40	F	AM	T11	550	N	B	C	82

The line number would be renumbered as shown here...



And the PLA submission would show the following:

INFORMATION INSTRUCTION CODE	
ADD INFORMATION	<input type="checkbox"/> CHANGE INFORMATION <input checked="" type="checkbox"/>

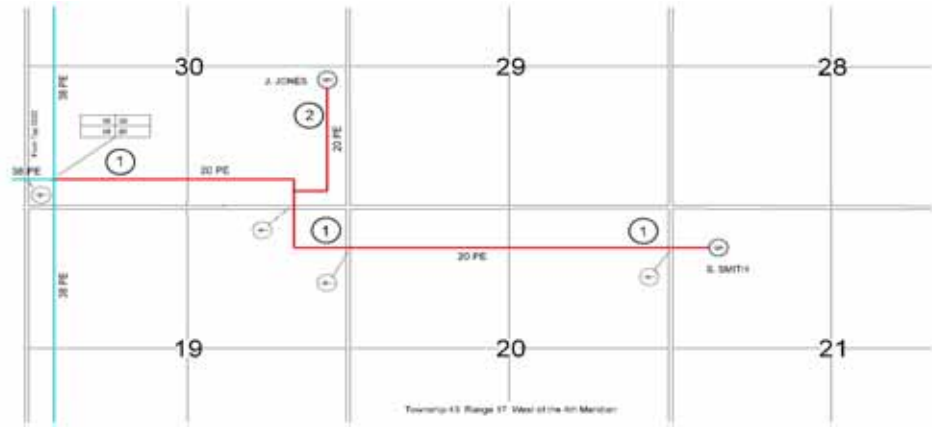
LINE NO	FROM LOCATION					F C	TO LOCATION					F C	LENGTH (km)	OD (mm)		WALL THICKNESS (mm)		MATERIAL	TYPE	GRADE	MOP (kPa)	EXTERNAL COATING	JOINTS	STATUS	YEAR
	LS	SEC	TWP	RGE	N		LS	SEC	TWP	RGE	M														
1	0'	30	04'	17	4	PL	0'	30	04'	17	4	PL	1.2												

INFORMATION INSTRUCTION CODE	
ADD INFORMATION	<input checked="" type="checkbox"/> CHANGE INFORMATION <input type="checkbox"/>

LINE NO	FROM LOCATION					F C	TO LOCATION					F C	LENGTH (km)	OD (mm)		WALL THICKNESS (mm)		MATERIAL	TYPE	GRADE	MOP (kPa)	EXTERNAL COATING	JOINTS	STATUS	YEAR
	LS	SEC	TWP	RGE	N		LS	SEC	TWP	RGE	M														
3	0'	30	04'	17	4	BE	1'	21	04'	17	4	BE	2.4	24	1	2	40	F	AM	T11	0	N	B	4	82

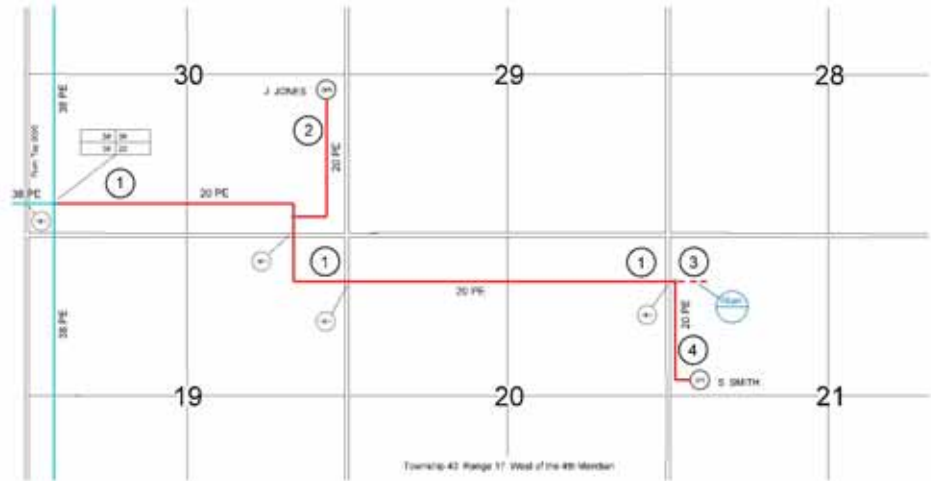
CASE B: RELOCATION OF THE END OF A LINE

If the customer at the end of line number 1 shown here was to be relocated...



LINE NO	FROM LOCATION					F C	TO LOCATION					F C	LENGTH (km)	OD (mm)	WALL THICKNESS (mm)	MATERIAL	TYPE	GRADE	MOP (kPa)	EXTERNAL COATING	JOINTS	STATUS	YEAR	
	LS	SEC	TWP	RGE	M		LS	SEC	TWP	RGE	M													
1	04	30	04	17	4	PL	1	21	04	17	4	CO	3.6	24	2	40	F	AM	T11	550	N	B	C	82

The line number would be renumbered as shown here...



And the PLA submission would show the following:

INFORMATION INSTRUCTION CODE	
ADD INFORMATION	<input type="checkbox"/> CHANGE INFORMATION <input checked="" type="checkbox"/>

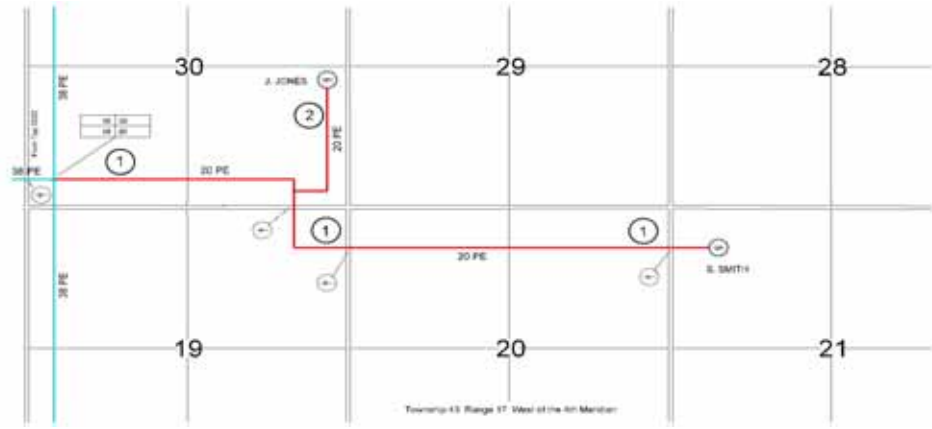
LINE NO	FROM LOCATION					F C	TO LOCATION					F C	LENGTH (km)	OD (mm)	WALL THICKNESS (mm)	MATERIAL	TYPE	GRADE	MOP (kPa)	EXTERNAL COATING	JOINTS	STATUS	YEAR	
	LS	SEC	TWP	RGE	M		LS	SEC	TWP	RGE	M													
1	04	30	04	17	4	PL	1	21	04	17	4	PL	3.4											

INFORMATION INSTRUCTION CODE	
ADD INFORMATION	<input checked="" type="checkbox"/> CHANGE INFORMATION <input type="checkbox"/>

LINE NO	FROM LOCATION					F C	TO LOCATION					F C	LENGTH (km)	OD (mm)	WALL THICKNESS (mm)	MATERIAL	TYPE	GRADE	MOP (kPa)	EXTERNAL COATING	JOINTS	STATUS	YEAR	
	LS	SEC	TWP	RGE	M		LS	SEC	TWP	RGE	M													
3	1	21	04	17	4	BE	1	21	04	17	4	BE	0.2	24	2	40	F	AM	T11	0	N	B	I	82
4	1	21	04	17	4	PL	1	21	04	17	4	CO	0.8	24	2	40	F	AM	T11	550	N	B	C	90

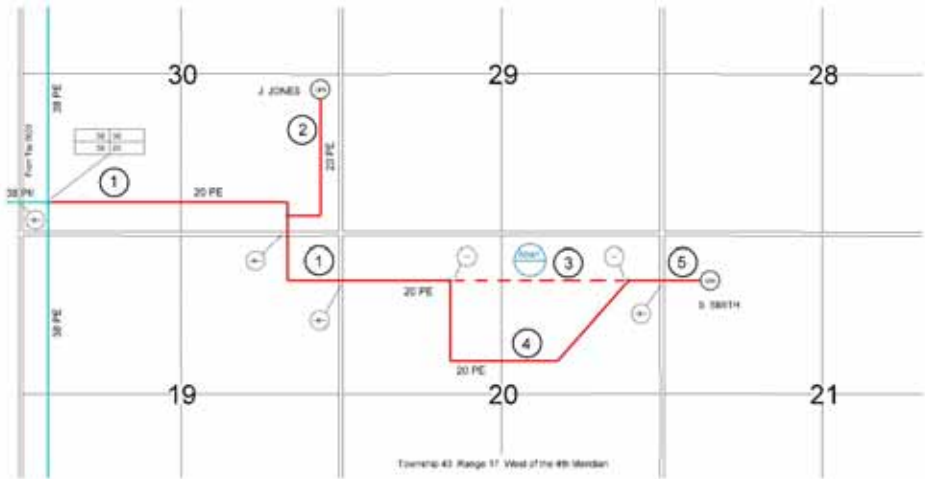
CASE C: RELOCATION OF THE CENTER PORTION OF A LINE

If a center portion of line number 1 shown here was to be relocated...



LINE NO	FROM LOCATION					F C	TO LOCATION					F C	LENGTH (km)	OD (mm)		WALL THICKNESS (mm)		MATERIAL	TYPE	GRADE	MOP (kPa)	EXTERNAL COATING	JOINTS	STATUS	YEAR
	LS	SEC	TWP	RGE	M		LS	SEC	TWP	RGE	M														
1	04	30	04	17	4	PL	1	21	04	17	4	CO	3.6	21	1	2	40	F	AM	T11	550	N	B	C	82

The line number would be renumbered as shown here...



And the PLA submission would show the following:

INFORMATION INSTRUCTION CODE	
ADD INFORMATION	<input type="checkbox"/>
CHANGE INFORMATION	<input checked="" type="checkbox"/>

LINE NO	FROM LOCATION					F C	TO LOCATION					F C	LENGTH (km)	OD (mm)		WALL THICKNESS (mm)		MATERIAL	TYPE	GRADE	MOP (kPa)	EXTERNAL COATING	JOINTS	STATUS	YEAR
	LS	SEC	TWP	RGE	M		LS	SEC	TWP	RGE	M														
1	04	30	04	17	4	PL	1	20	04	17	4	PL	2.3												

INFORMATION INSTRUCTION CODE	
ADD INFORMATION	<input checked="" type="checkbox"/>
CHANGE INFORMATION	<input type="checkbox"/>

LINE NO	FROM LOCATION					F C	TO LOCATION					F C	LENGTH (km)	OD (mm)		WALL THICKNESS (mm)		MATERIAL	TYPE	GRADE	MOP (kPa)	EXTERNAL COATING	JOINTS	STATUS	YEAR
	LS	SEC	TWP	RGE	M		LS	SEC	TWP	RGE	M														
3	1	20	04	17	4	BE	1	20	04	17	4	BE	0.8	21	1	2	40	F	AM	T11	0	N	B	I	82
4	1	20	04	17	4	PL	1	20	04	17	4	PL	1.1	21	1	2	40	F	AM	T11	550	N	B	C	90
5	1	20	04	17	4	PL	1	21	04	17	4	CO	0.5	21	1	2	40	F	AM	T11	550	N	B	C	82

APPENDIX

PIPELINE INFORMATION

TABLE 1: FACILITY CODES	
<u>FACILITY</u>	<u>CODE</u>
Meter/regulator station	MS
Regulator station	RS
Pipeline	PL
Customer	CO
Blind end or capped	BE

TABLE 2: MATERIAL CODES	
<u>MATERIAL</u>	<u>CODE</u>
Polyethylene	P
Steel	S
Aluminum	A
PVC	V
Composite (RTP)	G

TABLE 3: POLYETHYLENE RESIN TYPE CODES	
<u>RESIN</u>	<u>CODE</u>
Gulf 9300 Orange (2406)	AK
Marlex 8000 (3406)	AN
Chevron 9300T (2406)	AP
Drisco 6500 (TR 418) Yellow (2406)	AS
Polygas K38-20 (Solvay) (2406)	AT
Novacor 2100U (A) (2406)	AU
(PE100) Continuum DGDA (2492)	AV

TABLE 4: POLYETHYLENE GRADE EXTRUDER CODES	
<u>EXTRUDER</u>	<u>CODE</u>
Polytubes	M
Phillips	K
KWH	T
For grades of polyethylene gas pipe, specify extruder code followed by pipe series or DR number	

TABLE 5: EXAMPLES OF CODES FOR TYPES/GRADE OF HIGH PRESSURE PIPE		
<u>PIPE SPECIFICATION</u>	<u>TYPE</u>	<u>GRADE</u>
AP1 5L, Grade A	5L	A
ASTM A53, Grade A	A53	A
CSA, Z245.3, Grade 42		
Category 1	Z245.3	42.1
Coiled Aluminum	6063	T1A
Coiled Aluminum	6063	T1B
Composite Pipe (RTP)	FPLP	301

TABLE 6: JOINT CODES	
<u>TYPE OF JOINT</u>	<u>CODE</u>
Electrofusion	E
Butt fusion	B
Socket fusion	S
Mechanical coupling	M
Welded	W
High Energy Welding	H

TABLE 7: STATUS CODES	
<u>STATUS</u>	<u>CODE</u>
Operating	O
Abandoned	A
Removed	R
Delete data	D

TABLE 8: PIPE DIMENSIONS - DR 11	
<u>NOMINAL SIZES (mm)</u>	<u>WALL THICKNESS (mm)</u>
15.9	2.28 ⁺
26.7	2.41
33.4	3.02
42.2	4.22 [*]
48.3	4.39
60.3	5.49
73.0	6.63
88.9	8.08
114.3	10.39
168.3	15.29
219.1	16.23 [#]
323.4	25.44 [#]
323.4	20.12 ^{##}

⁺ denote DR 7.7 [#] denotes DR 13.5
^{*} denotes DR 10 ^{##} denotes DR 17
 Wall thickness are minimums

Note: These are the current pipe codes. Historical code information is available from the Division.