

EXHIBIT C-1
MIDAMERICAN ENERGY COMPANY
Specifications for Pipeline

Permit Number: 1180	Docket Number: P-0831
MAOP ID: 670	Pipeline Name: DUBUQUE-DAVENPORT LATERAL
Service Center: BTSC	Operating Pressure: 960
Line Number: IAQC619	Design MAOP: 960

Pipe Specifications:

Install Date (3/13/1996)

Segment 1:

Install Date:	3/13/1996		
Internal Diameter (in):	15.562	Wall thickness (in):	0.219
External Diameter (in):	16.000	Minimum Yield psi (SMYS):	60000
Weight per foot (lb):	36.91	Pipe Specification (API, ASME):	API 5L GRADE X60
Longitudinal seam type:	ERW	Manufacturer of pipe:	Geneva Steel
% SMYS at MAOP:	58.45%	Type of coating:	FBE
		Length (mi):	2.78
		Test Date:	3/13/1996
		Test Pressure:	1618
		Test Medium:	WATER

Segment 2:

Install Date:	3/13/1996		
Internal Diameter (in):	15.438	Wall thickness (in):	0.281
External Diameter (in):	16.000	Minimum Yield psi (SMYS):	60000
Weight per foot (lb):	47.17	Pipe Specification (API, ASME):	API 5L GRADE X60
Longitudinal seam type:	ERW	Manufacturer of pipe:	Geneva Steel
% SMYS at MAOP:	45.55%	Type of coating:	FBE
		Length (mi):	0.52
		Test Date:	3/13/1996
		Test Pressure:	1618
		Test Medium:	WATER

Install Date (3/17/1996)

Segment 3:

Install Date:	3/17/1996		
Internal Diameter (in):	15.562	Wall thickness (in):	0.219
External Diameter (in):	16.000	Minimum Yield psi (SMYS):	60000
Weight per foot (lb):	36.91	Pipe Specification (API, ASME):	API 5L GRADE X60
Longitudinal seam type:	ERW	Manufacturer of pipe:	Geneva Steel
% SMYS at MAOP:	58.45%	Type of coating:	FBE
		Length (mi):	11.55
		Test Date:	3/17/1996
		Test Pressure:	1626
		Test Medium:	WATER

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Pipe Specifications:

Segment 4:

Install Date:	3/17/1996		
Internal Diameter (in):	15.438	Wall thickness (in):	0.281
External Diameter (in):	16.000	Minimum Yield psi (SMYS):	60000
Weight per foot (lb):	47.17	Pipe Specification (API, ASME):	API 5L GRADE X60
Longitudinal seam type:	ERW	Manufacturer of pipe:	Geneva Steel
% SMYS at MAOP:	45.55%	Type of coating:	FBE
		Length (mi):	2.55
		Test Date:	3/17/1996
		Test Pressure:	1626
		Test Medium:	WATER

Segment 5:

Install Date:	3/17/1996		
Internal Diameter (in):	15.250	Wall thickness (in):	0.375
External Diameter (in):	16.000	Minimum Yield psi (SMYS):	52000
Weight per foot (lb):	62.58	Pipe Specification (API, ASME):	API 5L GRADE X52
Longitudinal seam type:	ERW	Manufacturer of pipe:	Geneva Steel
% SMYS at MAOP:	39.38%	Type of coating:	FBE
		Length (mi):	0.05
		Test Date:	3/17/1996
		Test Pressure:	1626
		Test Medium:	WATER

Segment 6:

Install Date:	3/17/1996		
Internal Diameter (in):	15.438	Wall thickness (in):	0.281
External Diameter (in):	16.000	Minimum Yield psi (SMYS):	60000
Weight per foot (lb):	47.17	Pipe Specification (API, ASME):	API 5L GRADE X60
Longitudinal seam type:	ERW	Manufacturer of pipe:	Geneva Steel
% SMYS at MAOP:	45.55%	Type of coating:	FBE
		Length (mi):	0.15
Original Test Date:	3/17/1996	Test Date:	8/10/2004
Original Test Pressure:	1626	Test Pressure:	1500
Original Test Medium:	WATER	Test Medium:	NITROGEN

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Pipe Specifications:

Install Date (6/19/1996)

Segment 7:

Install Date:	6/19/1996		
Internal Diameter (in):	15.562	Wall thickness (in):	0.219
External Diameter (in):	16.000	Minimum Yield psi (SMYS):	60000
Weight per foot (lb):	36.91	Pipe Specification (API, ASME):	API 5L GRADE X60
Longitudinal seam type:	ERW	Manufacturer of pipe:	Geneva Steel
% SMYS at MAOP:	58.45%	Type of coating:	FBE
		Length (mi):	12.24
		Test Date:	6/19/1996
		Test Pressure:	1528
		Test Medium:	WATER

Segment 8:

Install Date:	6/19/1996		
Internal Diameter (in):	15.438	Wall thickness (in):	0.281
External Diameter (in):	16.000	Minimum Yield psi (SMYS):	60000
Weight per foot (lb):	47.17	Pipe Specification (API, ASME):	API 5L GRADE X60
Longitudinal seam type:	ERW	Manufacturer of pipe:	Geneva Steel
% SMYS at MAOP:	45.55%	Type of coating:	FBE
		Length (mi):	0.12
		Test Date:	6/19/1996
		Test Pressure:	1528
		Test Medium:	WATER

Install Date (6/20/1996)

Segment 9:

Install Date:	6/20/1996		
Internal Diameter (in):	15.562	Wall thickness (in):	0.219
External Diameter (in):	16.000	Minimum Yield psi (SMYS):	60000
Weight per foot (lb):	36.91	Pipe Specification (API, ASME):	API 5L GRADE X60
Longitudinal seam type:	ERW	Manufacturer of pipe:	Geneva Steel
% SMYS at MAOP:	58.45%	Type of coating:	FBE
		Length (mi):	13.15
		Test Date:	6/20/1996
		Test Pressure:	1601
		Test Medium:	WATER

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Pipe Specifications:

Install Date (6/27/1996)

Segment 10:

Install Date:	6/27/1996		
Internal Diameter (in):	15.562	Wall thickness (in):	0.219
External Diameter (in):	16.000	Minimum Yield psi (SMYS):	60000
Weight per foot (lb):	36.91	Pipe Specification (API, ASME):	API 5L GRADE X60
Longitudinal seam type:	ERW	Manufacturer of pipe:	Geneva Steel
% SMYS at MAOP:	58.45%	Type of coating:	FBE
		Length (mi):	18.18
		Test Date:	6/27/1996
		Test Pressure:	1630
		Test Medium:	WATER

Segment 11:

Install Date:	6/27/1996		
Internal Diameter (in):	15.438	Wall thickness (in):	0.281
External Diameter (in):	16.000	Minimum Yield psi (SMYS):	60000
Weight per foot (lb):	47.17	Pipe Specification (API, ASME):	API 5L GRADE X60
Longitudinal seam type:	ERW	Manufacturer of pipe:	Geneva Steel
% SMYS at MAOP:	45.55%	Type of coating:	FBE
		Length (mi):	0.91
		Test Date:	6/27/1996
		Test Pressure:	1630
		Test Medium:	WATER

Segment 12:

Install Date:	6/27/1996		
Internal Diameter (in):	15.250	Wall thickness (in):	0.375
External Diameter (in):	16.000	Minimum Yield psi (SMYS):	52000
Weight per foot (lb):	62.58	Pipe Specification (API, ASME):	API 5L GRADE X52
Longitudinal seam type:	ERW	Manufacturer of pipe:	Geneva Steel
% SMYS at MAOP:	39.38%	Type of coating:	FBE
		Length (mi):	0.16
		Test Date:	6/27/1996
		Test Pressure:	1630
		Test Medium:	WATER

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Line Number: IAQC619	Design MAOP: 960

Pipe Specifications:

Install Date (12/5/1998)

Segment 13:

Install Date:	12/5/1998		
Internal Diameter (in):	15.250	Wall thickness (in):	0.375
External Diameter (in):	16.000	Minimum Yield psi (SMYS):	52000
Weight per foot (lb):	62.58	Pipe Specification (API, ASME):	API 5L GRADE X52
Longitudinal seam type:	ERW	Manufacturer of pipe:	UNKNOWN
% SMYS at MAOP:	39.38%	Type of coating:	FBE
		Length (mi):	0.06
		Test Date:	12/5/1998
		Test Pressure:	1560
		Test Medium:	NITROGEN

Install Date (3/30/2006)

Segment 14:

Install Date:	3/30/2006		
Internal Diameter (in):	15.438	Wall thickness (in):	0.281
External Diameter (in):	16.000	Minimum Yield psi (SMYS):	60000
Weight per foot (lb):	47.17	Pipe Specification (API, ASME):	API 5L GRADE X60
Longitudinal seam type:	ERW	Manufacturer of pipe:	US Steel
% SMYS at MAOP:	45.55%	Type of coating:	FBE
		Length (mi):	0.18
		Test Date:	3/30/2006
		Test Pressure:	1445
		Test Medium:	NITROGEN

Segment 15:

Install Date:	3/30/2006		
Internal Diameter (in):	15.250	Wall thickness (in):	0.375
External Diameter (in):	16.000	Minimum Yield psi (SMYS):	60000
Weight per foot (lb):	62.58	Pipe Specification (API, ASME):	API 5L GRADE X60
Longitudinal seam type:	ERW	Manufacturer of pipe:	US Steel
% SMYS at MAOP:	34.13%	Type of coating:	FBE
		Length (mi):	0.00 (8 feet)
		Test Date:	3/30/2006
		Test Pressure:	1445
		Test Medium:	NITROGEN

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Pipe Specifications:

Install Date (5/2/2012)

Segment 16:

Install Date:	5/2/2012		
Internal Diameter (in):	15.438	Wall thickness (in):	0.281
External Diameter (in):	16.000	Minimum Yield psi (SMYS):	60000
Weight per foot (lb):	47.17	Pipe Specification (API, ASME):	API 5L GRADE X60
Longitudinal seam type:	ERW	Manufacturer of pipe:	Shaw
% SMYS at MAOP:	45.55%	Type of coating:	FBE
		Length (mi):	0.03
		Test Date:	5/2/2012
		Test Pressure:	1550
		Test Medium:	WATER

Install Date (6/27/1996)

Segment 17:

Install Date:	6/27/1996		
Internal Diameter (in):	15.562	Wall thickness (in):	0.219
External Diameter (in):	16.000	Minimum Yield psi (SMYS):	60000
Weight per foot (lb):	36.91	Pipe Specification (API, ASME):	API 5L GRADE X60
Longitudinal seam type:	ERW	Manufacturer of pipe:	Geneva Steel
% SMYS at MAOP:	58.45%	Type of coating:	FBE
		Length (mi):	0.08
Original Test Date:	6/20/1996	Test Date:	5/2/2012
Original Test Pressure:	1601	Test Pressure:	1550
Original Test Medium:	WATER	Test Medium:	WATER

Install Date (9/21/2018)

Segment 18:

Install Date:	9/21/2018		
Internal Diameter (in):	15.250	Wall thickness (in):	0.375
External Diameter (in):	16.000	Minimum Yield psi (SMYS):	52000
Weight per foot (lb):	62.58	Pipe Specification (API, ASME):	API 5L GRADE X52
Longitudinal seam type:	ERW	Manufacturer of pipe:	IPSCO
% SMYS at MAOP:	39.38%	Type of coating:	FBE
		Length (mi):	0.06
		Test Date:	9/21/2018
		Test Pressure:	1550
		Test Medium:	WATER
		Total Mileage:	62.77