Exh 823

Company Name: Con Edison
Case Description: Con Edison Gas Rate Case
Case: 13-G-0031

Response to OAG Interrogatories – Set OAG 2
Date of Response: 05/30/2013
Responding Witness: Gas Infrastructure & Operations Panel

Question No. :G029
Subject: Lost Natural Gas - In these rate proceedings Con Edison is requesting that customers in general make the company whole for Lost and Unaccounted For natural gas ("LAUF") that it cannot bill to a specific customer. (a) For Con Edison's natural gas distribution system please provide: (i) The total length of pipe in Con Edison's natural gas distribution system; (ii) The total length of pipe in Con Edison's natural gas distribution system that the company designates as main; (iii) The total length of pipe in Con Edison's natural gas distribution system that the company designates as service line or equivalent; (iv) Separately by composition the total length of pipe of a given composition (cast /wrought iron, ductile iron, unprotected bare steel, unprotected coated steel, cathodically protected bare steel, cathodically protected coated steel, copper, plastic, etc.) in Con Edison's natural gas distribution system; (v) By vintage (individual year, decade or whatever age categories Con Edison uses in its property records) the total length of pipe in Con Edison's natural gas distribution system; (vi) By composition and vintage the total length of pipe of each composition and vintage in Con Edison's natural gas distribution system; (vii) Separately by composition the total length of main of a given composition (cast /wrought iron, ductile iron, unprotected bare steel, unprotected coated steel, cathodically protected bare steel, cathodically protected coated steel, copper, plastic, etc.) in Con Edison's natural gas distribution system; (viii) By vintage (individual year, decade or whatever age categories Con Edison uses in its property records) the total length of main in Con Edison's natural gas distribution system; (ix) By composition and vintage the total length of main of each composition and vintage in Con Edison's natural gas distribution system; 2 (x) Separately by composition the total length of service line or equivalent of a given composition (cast /wrought iron, ductile iron, unprotected bare steel, unprotected coated steel, cathodically protected bare steel, cathodically protected coated steel, copper, plastic, etc.) in Con Edison's natural gas distribution system; (xi) By vintage (individual year, decade or whatever age categories Con Edison uses in its property records) the total length of service line or equivalent in Con Edison's natural gas distribution system; and (xii) By composition and vintage the total length of service line or equivalent of each composition and vintage in Con Edison's natural gas distribution system; (b) For Con Edison's natural gas service territory, (i) The designation of the smallest geographic units (county, borough, neighborhood, etc.) for which Con Edison has separate property records for natural gas distribution pipes; and (ii) A map or chart showing the boundaries of the smallest geographic units for which Con Edison has separate property records for natural gas distribution pipes; (c) For each of smallest geographic units for which Con Edison has separate property records for natural gas distribution pipes: (i) The total length of Con Edison natural gas distribution pipes in the unit; (ii) Separately by composition the total length of main of a given composition (cast /wrought iron, ductile iron, unprotected bare steel,

unprotected coated steel, cathodically protected bare steel, cathodically protected coated steel, copper, plastic, etc.) in the unit; (iii) By vintage (individual year, decade or whatever age categories Con Edison uses in its property records) the total length of main in the unit; (iv) By composition and vintage the total length of main of each composition and vintage in the unit; (v) Separately by composition the total length of service line or equivalent of a given composition (cast /wrought iron, ductile iron, unprotected bare steel, unprotected coated steel, cathodically protected bare steel, cathodically protected coated steel, copper, plastic, etc.) in the unit; (vi) By vintage (individual year, decade or whatever age categories Con Edison uses in its property records) the total length of service line or equivalent in the unit; and (vi) By composition and vintage the total length of service line or equivalent main of each composition and vintage in the unit; and 3 (d) Please identify the individual or individuals who prepared the answer to this information request.

Response:
It should be noted at the outset that the Company is proposing a lost and unaccounted for mechanism pursuant to the Commission's regulations and that the proposed mechanism does not make the Company whole for losses in all instances.

(a) For Con Edison's natural gas distribution system please provide:

(i) The total length of pipe in Con Edison's natural gas distribution system;

Response:
There are 7,328 miles of pipe in Con Edison's natural gas distribution system.

(ii) The total length of pipe in Con Edison's natural gas distribution system that the company designates as main;

Response:
There are 4,275 miles of pipe in Con Edison's natural gas distribution system that are designated as main.

(iii) The total length of pipe in Con Edison's natural gas distribution system that the company designates as service line or equivalent;

Response:
There are 3,053 miles of pipe in Con Edison's natural gas distribution system that are designated as service line.

(iv) Separately by composition the total length of pipe of a given composition (cast /wrought iron, ductile iron, unprotected bare steel, unprotected coated steel, cathodically protected bare steel, cathodically protected coated steel, copper, plastic, etc.) in Con Edison's natural gas distribution system;

Response:

Miles of Distribution Mains by Material EOY 2012

Material	Manhattan	Bronx	Queens	Westchester	Total
Steel	172	166	324	883	1,545
Plastic	90	250	338	764	1,442
Cast Iron	369	387	136	394	1,286
Other	0	1	1	0	2
Total...	631	804	799	2,041	4,275

Miles of Service Lines by Material EOY 2012

Material	Manhattan	Bronx	Queens	Westchester	Total
Steel	107	158	162	479	906
Plastic	105	468	630	781	1,984
Copper	55	13	73	14	155
Other	1	4	2	1	8
Total...	268	643	867	1,275	3,053

(v) By vintage (individual year, decade or whatever age categories Con Edison uses in its property records) the total length of pipe in Con Edison's natural gas distribution system;

Response:

Miles of Distribution Mains by Decade EOY 2012

Year	Manhattan	Bronx	Queens	Westchester	Total
Pre 1940	449	402	234	744	1,829
1940-1949	6	17	85	42	150
1950-1959	7	38	68	181	294
1960-1969	6	43	43	180	272
1970-1979	33	50	63	150	296
1980-1989	19	43	65	208	335
1990-1999	57	99	94	294	544
2000-2009	45	93	121	215	474
2010-2019	9	19	26	27	81
Total..	631	804	799	2,041	4,275

Miles of Service Lines by Decade EOY 2012

Year	Manhattan	Bronx	Queens	Westchester	Total
Pre 1940	43	89	82	311	525
1940-1949	3	11	46	25	85
1950-1959	3	21	31	67	122
1960-1969	6	18	22	53	99
1970-1979	68	90	216	92	466
1980-1989	50	125	140	171	486
1990-1999	51	146	144	276	617
2000-2009	40	132	159	237	568
2010-2019	4	11	27	43	85
Total..	268	643	867	1,275	3,053

(vi) By composition and vintage the total length of pipe of each composition and vintage in Con Edison's natural gas distribution system;

Response:

Miles of Distribution Mains by Decade/Material EOY 2012

Total System

Year	Steel	Plastic	Cast Iron	Other	Total
Pre 1940	601	-	1,228	-	1,829
1940-1949	150	-	-	-	150
1950-1959	262	-	32	-	294
1960-1969	246	-	26	-	272
1970-1979	194	102	-	-	296
1980-1989	46	289	-	-	335
1990-1999	19	523	-	2	544
2000-2009	22	452	-	-	474
2010-2019	5	76	-	-	81
Total..	1,545	1,442	1,286	2	4,275

Miles of Service Pipes by Decade/Material EOY 2012

Total System

Year	Steel	Plastic	Copper	Other	Total
Pre 1940	519	-	6	-	525
1940-1949	63	-	22	-	85
1950-1959	122	-	-	-	122
1960-1969	92	-	7	-	99
1970-1979	63	295	100	8	467
1980-1989	34	438	14	-	486
1990-1999	6	606	4	-	617
2000-2009	7	560	1	-	568
2010-2019	-	84	1	-	85
Total..	906	1,984	155	8	3,053

(vii) Separately by composition the total length of main of a given composition (cast /wrought iron, ductile iron, unprotected bare steel, unprotected coated steel, cathodically protected bare steel, cathodically protected coated steel, copper, plastic, etc.) in Con Edison's natural gas distribution system;

Response:
See answer to subpart (vi) above.

(viii) By vintage (individual year, decade or whatever age categories Con Edison uses in its property records) the total length of main in Con Edison's natural gas distribution system;

Response:
See answer to subpart (v) above.

(ix) By composition and vintage the total length of main of each composition and vintage in Con Edison's natural gas distribution system;

Response:

See answer to subpart (vi) above.

(x) Separately by composition the total length of service line or equivalent of a given composition (cast /wrought iron, ductile iron, unprotected bare steel, unprotected coated steel, cathodically protected bare steel, cathodically protected coated steel, copper, plastic, etc.) in Con Edison's natural gas distribution system;

Response:
See answer to subpart (iv) above.

(xi) By vintage (individual year, decade or whatever age categories Con Edison uses in its property records) the total length of service line or equivalent in Con Edison's natural gas distribution system; and

Response:
See answer to subpart (v) above.

(xii) By composition and vintage the total length of service line or equivalent of each composition and vintage in Con Edison's natural gas distribution system;

Response:
See answer to subpart (vi) above.

(b) For Con Edison's natural gas service territory,

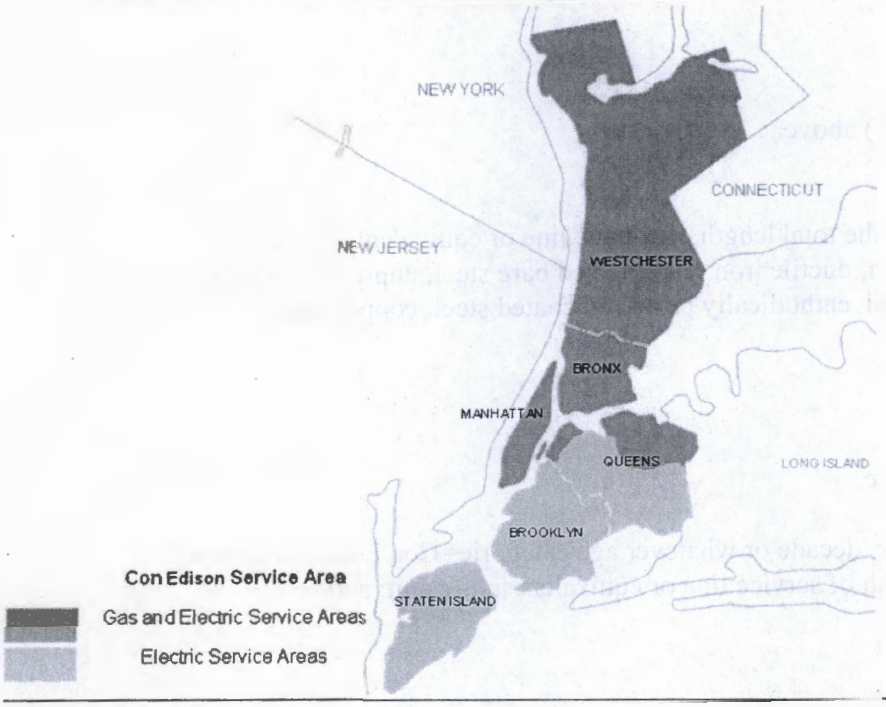
(i) The designation of the smallest geographic units (county, borough, neighborhood, etc.) for which Con Edison has separate property records for natural gas distribution pipes;

Response:
The smallest geographic unit for which Con Edison has separate property records is County / Borough.

(ii) A map or chart showing the boundaries of the smallest geographic units for which Con Edison has separate property records for natural gas distribution pipes;

Response:

CECONY Gas Franchise Areas



(c) For each of smallest geographic units for which Con Edison has separate property records for natural gas distribution pipes:

(i) The total length of Con Edison natural gas distribution pipes in the unit;

Response:

See answer to part (a) (iv) above.

(ii) Separately by composition the total length of main of a given composition (cast /wrought iron, ductile iron, unprotected bare steel, unprotected coated steel, cathodically protected bare steel, cathodically protected coated steel, copper, plastic, etc.) in the unit;

Response:

See answer to part (a) (iv) above.

(iii) By vintage (individual year, decade or whatever age categories Con Edison uses in its property records) the total length of main in the unit;

Response:

See answer to part (a) (v) above.

(iv) By composition and vintage the total length of main of each composition and vintage in the unit;

Response:

See answer to part (a) (iv) & (v) above.

(v) Separately by composition the total length of service line or equivalent of a given composition (cast /wrought iron, ductile iron, unprotected bare steel, unprotected coated steel, cathodically protected bare steel, cathodically protected coated steel, copper, plastic, etc.) in the unit;

Response:

See answer to part (a) (iv) above.

(vi) By vintage (individual year, decade or whatever age categories Con Edison uses in its property records) the total length of service line or equivalent in the unit; and

Response:

See answer to part (a) (v) above.

(vi) By composition and vintage the total length of service line or equivalent main of each composition and vintage in the unit; and

Response:
See attachment 1.

(d) Please identify the individual or individuals who prepared the answer to this information request.

Response:

This response was prepared by or under the direction of the Gas Operations and Infrastructure Panel.

Miles of Distribution Mains by Decade/Material EOY 2012

Total System

Year	Steel	Plastic	Cast Iron	Other	Total
Pre 1940	601	-	1,228	-	1,829
1940-1949	150	-	-	-	150
1950-1959	262	-	32	-	294
1960-1969	246	-	26	-	272
1970-1979	194	102	-	-	296
1980-1989	46	289	-	-	335
1990-1999	19	523	-	2	544
2000-2009	22	452	-	-	474
2010-2019	5	76	-	-	81
Total..	1,545	1,442	1,286	2	4,275

Manhattan

Year	Steel	Plastic	Cast Iron	Other	Total
Pre 1940	80	-	369	-	449
1940-1949	6	-	-	-	6
1950-1959	7	-	-	-	7
1960-1969	6	-	-	-	6
1970-1979	32	1	-	-	33
1980-1989	14	5	-	-	19
1990-1999	12	45	-	-	57
2000-2009	12	33	-	-	45
2010-2019	3	6	-	-	9
Total..	172	90	369	-	631

Miles of Service Pipes by Decade/Material EOY 2012

Total System

Year	Steel	Plastic	Copper	Other	Total
Pre 1940	519	-	6	-	525
1940-1949	63	-	22	-	85
1950-1959	122	-	-	-	122
1960-1969	92	-	7	-	99
1970-1979	63	295	100	8	467
1980-1989	34	438	14	-	486
1990-1999	6	606	4	-	617
2000-2009	7	560	1	-	568
2010-2019	-	84	1	-	85
Total..	906	1,984	155	8	3,053

Manhattan

Year	Steel	Plastic	Copper	Other	Total
Pre 1940	43	-	-	-	43
1940-1949	3	-	-	-	3
1950-1959	3	-	-	-	3
1960-1969	6	-	-	-	6
1970-1979	17	13	37	1	68
1980-1989	25	13	12	-	50
1990-1999	5	42	4	-	51
2000-2009	5	34	1	-	40
2010-2019	-	3	1	-	4
Total..	107	105	55	1	268

Bronx

Year	Steel	Plastic	Cast Iron	Other	Total
Pre 1940	51	-	351	-	402
1940-1949	17	-	-	-	17
1950-1959	20	-	18	-	38
1960-1969	25	-	18	-	43
1970-1979	35	15	-	-	50
1980-1989	7	36	-	-	43
1990-1999	2	96	-	1	99
2000-2009	7	86	-	-	93
2010-2019	2	17	-	-	19
Total..	166	250	387	1	804

Queens

Year	Steel	Plastic	Cast Iron	Other	Total
Pre 1940	104	-	130	-	234
1940-1949	85	-	-	-	85
1950-1959	65	-	3	-	68
1960-1969	40	-	3	-	43
1970-1979	30	33	-	-	63
1980-1989	-	65	-	-	65
1990-1999	-	93	-	1	94
2000-2009	-	121	-	-	121
2010-2019	-	26	-	-	26
Total..	324	338	136	1	799

Bronx

Year	Steel	Plastic	Copper	Other	Total
Pre 1940	88	-	1	-	89
1940-1949	11	-	-	-	11
1950-1959	21	-	-	-	21
1960-1969	17	-	1	-	18
1970-1979	15	60	11	4	90
1980-1989	5	120	-	-	125
1990-1999	-	146	-	-	146
2000-2009	1	131	-	-	132
2010-2019	-	11	-	-	11
Total..	158	468	13	4	643

Queens

Year	Steel	Plastic	Copper	Other	Total
Pre 1940	77	-	5	-	82
1940-1949	24	-	22	-	46
1950-1959	31	-	-	-	31
1960-1969	18	-	4	-	22
1970-1979	11	163	40	2	216
1980-1989	1	138	1	-	140
1990-1999	-	143	0	-	144
2000-2009	-	159	-	-	159
2010-2019	-	27	-	-	27
Total..	162	630	73	2	867

Westchester

Year	Steel	Plastic	Cast Iron	Other	Total
Pre 1940	366	-	378	-	744
1940-1949	42	-	-	-	42
1950-1959	170	-	11	-	181
1960-1969	175	-	5	-	180
1970-1979	97	53	-	-	150
1980-1989	25	183	-	-	208
1990-1999	5	289	-	-	294
2000-2009	3	212	-	-	215
2010-2019	-	27	-	-	27
Total..	883	764	394	-	2,041

Westchester

Year	Steel	Plastic	Copper	Other	Total
Pre 1940	311	-	-	-	311
1940-1949	25	-	-	-	25
1950-1959	67	-	-	-	67
1960-1969	51	-	2	-	53
1970-1979	20	59	12	1	92
1980-1989	3	167	1	-	171
1990-1999	1	275	-	-	276
2000-2009	1	236	-	-	237
2010-2019	-	43	-	-	43
Total..	479	781	14	1	1,275