

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

APPLICATION OF COLUMBIA GAS OF KENTUCKY,)	
INC. FOR A LIMITED DEVIATION FROM THE)	CASE NO.
REQUIREMENTS OF 807 KAR 5:022, SECTION)	2015-00084
14(22)(A))	

ORDER

On March 12, 2015, Columbia Gas of Kentucky, Inc. ("Columbia Gas") filed a request for a deviation from 807 KAR 5:022, Section 14(22)(a), which requires, among other things, that each gas utility keep in continual use an accurate recording pressure gauge on its distribution systems. Commission Staff's Initial Request for Information to Columbia Gas ("Staff's Initial Request") was filed on June 12, 2015. Columbia Gas responded to Staff's Initial Request on June 26, 2015. Staff's Second Request for Information to Columbia Gas ("Staff's Second Request") was filed on September 18, 2015. Columbia Gas responded to Staff's Second Request on October 2, 2015. Staff's Third Request for Information to Columbia Gas ("Staff's Third Request") was filed on November 17, 2015. Columbia Gas responded to Staff's Third Request on December 1, 2015. On February 18, 2016, an informal conference was held. On May 6, 2016, Columbia Gas filed additional supporting information in response to issues raised at the informal conference. On July 26, 2016, Columbia Gas filed a statement recommending that this case be submitted for adjudication without a hearing, based on the record developed in this case. No person has sought intervention in this proceeding. By this Order, we approve Columbia Gas's requested deviation.

Columbia Gas is seeking a limited deviation from the requirements of 807 KAR 5:022, Section 14(22)(a), the Commission's regulation prescribing where recording pressure gauges must be located and how they should function on a natural gas utility's distribution system. 807 KAR 5:022, Section 14(22)(a), specifically states that

[e]ach utility shall keep in continual use one (1) or more accurate recording pressure gauges on its distribution systems. These gauges shall be located at such points and in such manner sufficient to reflect a continuous record of gas pressure and character of service being furnished throughout the entire system.

Columbia Gas states that, "after reviewing this rule in depth, Columbia Gas interprets the Commission rule to require a recording pressure gauge downstream of *every distinct pressure system*."¹ Columbia Gas's current infrastructure includes 314² distinct pressure systems,³ or distribution systems,⁴ which are controlled by 548 district regulator stations.⁵ In order to comply with 807 KAR 5:022, Section 14(22)(a), Columbia Gas would be required to add recording pressure gauges on approximately 159 of its distribution systems⁶ that are supplied by a single district pressure regulating station. The specific distribution systems ("Systems") for which Columbia Gas is requesting a limited deviation from the requirements of 807 KAR 5:022, Section

¹ Memorandum of February 18, 2016 Informal Conference from Virginia W. Gregg, Staff Attorney, to Case File (filed Mar. 17, 2016). Columbia Gas was made aware that some of its distribution systems were not in compliance with 807 KAR 5:022, Section 14(22)(a) as the result of an internal system audit in 2006. Columbia Gas's Application is to resolve this internal discovery of non-compliance.

² Columbia Gas of Kentucky, Inc.'s Response to Staff's Initial Request, Item 2, amended this number from 312 to 314.

³ *Id.*, Item 1.

⁴ *Id.*, Item 3.a.

⁵ *Id.*, Item 3.b.

⁶ *Id.*, Item 5.

14(22)(a), are identified in the Appendix to this Order.⁷ These Systems lack uniformity and vary in the number of customers served, the length and size of pipelines utilized, the maximum allowable operating pressure (“MAOP”), and the normal operating pressure.⁸

Columbia Gas states that all of its distribution systems, including the Systems that are the subject of Columbia Gas’s application, are in compliance with 49 CFR 192.741, which is the federal regulation that also addresses when telemetering or recording pressure gauges are required on distribution systems. Specifically, 49 CFR 192.741 states that:

(a) Each distribution system supplied by *more than one* district pressure regulating station must be equipped with telemetering or recording pressure gauges to indicate the gas pressure in the district (emphasis added).

(b) On distribution systems supplied by a *single* district pressure regulating station, the operator shall determine the necessity of installing telemetering or recording gauges in the district, taking into consideration the number of customers supplied, the operating pressures, the capacity of the installation, and other operating conditions.

(c) If there are indications of abnormally high or low pressure, the regulator and the auxiliary equipment must be inspected and the necessary measures employed to correct any unsatisfactory operating conditions.

⁷ Response to the Commission Staff’s Informal Conference Data Requests, Item 2 (filed May 6, 2016).

⁸ Response to Staff’s Initial Request, Item 5, states in part that: (1) Station Number 1094 has 2,346 customers, 127,658 feet of 2-inch, 3-inch, 4-inch, 6-inch and 8-inch pipe, an MAOP of 40 and normal operating pressure of 32 psig; (2) Station Number 803523 has no customers, 21,550 feet of 2-inch, 3-inch and 6-inch pipe, an MAOP of 75 and normal operating pressure of 44 psig; (3) Station Number 1151 has two customers and 15 feet of 4-inch pipe, an MAOP of 100 and normal operating pressure of 95 psig; and, (4) Station Number 1375 has 19 customers, 52,155 feet of 2-inch, 10-inch, 12-inch, and 16-inch of pipe, an MAOP of 60 and normal operating pressure of 30 psig.

Columbia Gas is seeking a limited deviation from 807 KAR 5:022, Section 14(22)(a), which requires that a utility keep in continual use recording pressure gauges on every distribution system, while 49 CFR 192.741(a), as noted above, mandates telemetering or recording pressure gauges only on distribution systems supplied by “more than one” district pressure regulating station.⁹

Further, in compliance with the requirements of 49 CFR 192.741(b), in determining where to install a recording pressure gauge on its distribution systems supplied by a single district pressure regulating station, Columbia Gas considers several factors, including: the pressure differential across the district station; the number of valves in the by-pass; the capacity of the station; the presence of internal relief on the regulators; and, the presence of customers having large volume measurement equipment on the system.¹⁰ In addition, Columbia Gas states that when an abnormal operating condition is encountered at a pressure control station, it initiates an investigation, conducts an inspection, and takes corrective action in accordance with 49 CFR 192.741(c).¹¹

In support of its application, Columbia Gas states that it is able to predict the functional capability of its pressure regulating stations through its design and construction methodology.¹² This methodology includes Columbia Gas’s installation of

⁹ 49 CFR 192.741(a), the Pipeline and Hazardous Materials Safety Administration’s regulation at hand, requires that “[e]ach distribution system supplied by more than one district pressure regulating station must be equipped with telemetering or recording pressure gauges to indicate the gas pressure in the district.”

¹⁰ Response to Staff’s Initial Request, Item 9.

¹¹ *Id.*

¹² Memorandum of February 18, 2016 Informal Conference from Virginia W. Gregg, Staff Attorney, to Case File (filed Mar. 17, 2016) at 1.

auxiliary relief valves, along with control and monitor regulators, on its single supply distribution systems serving less than 100 customers, which Columbia Gas considers vulnerable to over-pressurization. Columbia Gas states that its single supply distribution systems serving more than 100 customers are able to absorb minor over pressurization caused by pressure leak-through at the regulating station, and Columbia Gas does not install auxiliary relief valves on these systems.¹³

Columbia Gas maintains that it currently provides its customers with safe and reliable gas service and that its technicians conduct annual regulator station inspections, along with inspections during peak operations, as part of its winter-operations planning. This planning includes inspections of approximately 90 percent of its regulator stations, conducted on the first day that the temperature drops below 20 degrees, the first day that the temperature drops below 15 degrees, the first day that the temperature drops below 10 degrees and each day that the temperature drops below 5 degrees.¹⁴

Columbia Gas checks for abnormal pressure events during its annual regulator inspections, its winter operations cold weather checks, during a Gas Measurement Billing audit trail, or when a Columbia Gas Service Tech is investigating an abnormal operating condition on a customer's property,¹⁵ if these abnormal pressure events occur

¹³ *Id.*

¹⁴ *Id.* at 2.

¹⁵ Response to Staff's Informal Conference Requests for Information, Item 9 (filed May 6, 2016).

at the time of inspection.¹⁶ Columbia Gas maintains that its inspections during peak operating periods actively protect its vulnerable systems from over pressurization, while compliance with 807 KAR 5:022, Section 14(22)(a) passively collects data which is only reviewed at a later time.¹⁷

In support of its application, Columbia Gas refers to the Commission's prior decision in Case No. 2004-00275, in which we granted Atmos Energy Corporation ("Atmos") a limited deviation from 807 KAR 5:022, Section 14(22)(a), for 59 of its regulator stations.¹⁸ Columbia Gas argues that, as existed in the Atmos case, the extra cost to install and maintain the additional recording pressure gauges would be an unwarranted expense.¹⁹ Columbia Gas estimates that its full compliance with 807 KAR 5:022, Section 14(22)(a), would cost \$420,000 for the initial installation of additional recording pressure gauges.²⁰ In addition, Columbia Gas would incur an annual cost of \$36,000 to monthly monitor and manually change the recording device charts for these new recording pressure gauges.²¹

¹⁶ Memorandum of February 18, 2016 Informal Conference from Virginia W. Gregg, Staff Attorney, to Case File (filed Mar. 17, 2016) at 2. Columbia Gas often learns of abnormal pressure events as the result of complaints by customers. A low-pressure event may be reported by customers who experience a service outage. In addition, district regulator stations designed for fewer than 100 customers have over-pressure protection provided by auxiliary relief valves. Columbia Gas may become aware of high-pressure events when customers in the vicinity experience and report the odor or noise resulting from gas escaping through these relief valves as they trip and blow off excess gas.

¹⁷ *Id.*

¹⁸ *Application of Atmos Energy Corporation for a Limited Deviation from the Requirements of 807 KAR 5:022, Section 4(23)(b)(1)-(4) and 807 KAR 5:022, Section 14(22)(a)* (Ky. PSC Jan. 20, 2005).

¹⁹ *Id.*

²⁰ Application at 2.

²¹ Application at 3.

The Commission having considered the evidence of record and being otherwise sufficiently advised, finds:

1. Columbia Gas has requested a limited deviation from Administrative Regulation 807 KAR 5:022, Section 14(22)(a), which requires that “each utility shall keep in continual use one or more accurate recording pressure gauges on its distribution systems,” for the Systems identified by Columbia Gas in the Appendix to this Order.

2. The additional cost of installing, maintaining, and monitoring of recording pressure gauges on the Systems identified by Columbia Gas in the Appendix to this Order will not substantially contribute to the safety of Columbia Gas’s distribution system or improve the quality of service for its customers.

3. The Commission has previously granted a limited deviation from Administrative Regulation 807 KAR 5:022, Section 14(22)(a), as requested by Columbia Gas herein, to Atmos Energy Corporation in Case No. 2004-00275.²²

4. The requested deviation from Administrative Regulation 807 KAR 5:022, Section 14(22)(a), for the Systems identified in the Appendix to this Order, will not

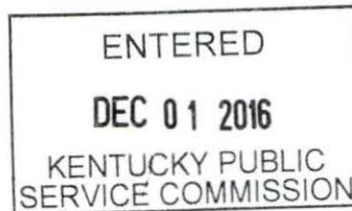
²² Case No. 2004-00275, *Application of Atmos Energy Corporation for a Limited Deviation from the Requirements of 807 KAR 5:022, Section 14(23)(b)(1)–(4) and 807 KAR 5:022, Section 14(22)(a)* (Ky. PSC Jan. 20, 2005).

reduce the quality of service provided by Columbia Gas to its customers or result in an unsafe practice or endanger the public.²³

5. Good cause exists to permit Columbia Gas to deviate from the requirements of Administrative Regulation 807 KAR 5:022, Section 14(22)(a), for the Systems identified by Columbia Gas in the Appendix to this Order and Columbia's request should be granted.

IT IS THEREFORE ORDERED that Columbia Gas's request for a limited deviation from the requirements of 807 KAR 5:022, Section 14(22)(a), for the Systems identified by Columbia Gas in the Appendix to this Order is granted.

By the Commission



ATTEST:

A handwritten signature in blue ink that reads "Aline R. Matthews". The signature is written in a cursive style.

Executive Director

²³ Columbia Gas affirms that its current system complies with federal regulation 92 CFR 192.741(a) and is designed to operate safely. Columbia Gas maintains that being required to install, maintain, and monitor the recording pressures gauges on the Systems identified by Columbia Gas in the Appendix to this Order would provide only a passive record of gas pressure and character of service. Currently, in determining where to install a recording pressure gauge, Columbia Gas states that it considers the pressure differential across the district station, the number of valves in the by-pass, the capacity of the station, the presence of internal relief on the regulators, and the presence of customers who have large-volume measurement equipment on the system.

APPENDIX

APPENDIX TO AN ORDER OF THE KENTUCKY PUBLIC SERVICE
COMMISSION IN CASE NO. 2015-00084 DATED **DEC 01 2016**

KY PSC Case No. 2015-00084
Staff's Informal Conference Request No. 2
Respondent: Gary Sullivan

**COLUMBIA GAS OF KENTUCKY, INC.
RESPONSE TO STAFF'S INFORMAL CONFERENCE
REQUESTS FOR INFORMATION
DATED MARCH 17, 2016**

2. Provide an update of the spreadsheet that was attached to Columbia's response to Commission Staff's Initial Request for Information ("Staff's Initial Request"), Item 5. This update should indicate which customers it considers to be high volume customers.

Response:

The updated spreadsheet is attached and a column has been added to include the measuring station numbers of our large volume customers.

Station Number	System Number	Number Customers	Pipe Length (ft)	Pipe Size (in)	System Name	MAOP	Normal Operating Pressure	Premise ID	Station Location	Large Volume Customers
1018	32010191	103	20,018	4			LP 10.5" w.c.	0200120		
1026	32010193	217	14,488	2,3,4,6,8			LP 10.5" w.c.	0200137		
1027	32010134	148	10,170	2,3,4,6			40 35 psig	0200125		804625, 848642
1029	32010130	45	6,120	2,3,4			60 47 psig	0200095		805147
1031	32010194	397	19,251	3,4,6,8,10,12			LP 10.5" w.c.	0200139		
1052	32010096	139	16,787	2,3,4,6			60 50 psig	0200469		
1061	32010040	202	10,579	2,3,4,6			8 7 psig	0200084		
1061	32010028	26	11,780	2,3,4,6			60 42 psig	0200084		845244
1066	32010133	279	29,445	2,3,4,6			35 30 psig	0200109		804726, 804422, 849006
1067	32010099	164	19,292	2,3,4			8 7 psig	0200062		
1068	32010122	15	4,989	2,4,6			40 25 psig	0200107		804217, 803739, 805709, 848988
1072	32010135	45	7,429	2,4,6			35 30 psig	0200086		
1094	32010101	2346	127,858	2,3,4,6,8			40 32 psig	0209577		
1097	32010086	51	7,508	2,4,6			9 6 psig	0200071		
1100	32010038	337	39,932	2,3,4,6			14 10 psig	0200129		
1112	32010091	34	5,466	2,3,4,6,8			8 7 psig	0200478		
1113	32010108	131	22,644	2,3,4,6			10 8 psig	0200360		
1115	32010107	44	14,070	2,3			8 5 psig	0200362		
1118	32010109	14	3,144	6			10 8 psig	0200074		
1119	32010127	214	16,151	2,3,4,6,8			10 8 psig	0200073		805906
1122	32010085	42	5,590	2,3,4			7 5.5 psig	0200467		
1129	32010042	5	2,523	2,3			8 6 psig	0200369		
1135	32046001	118	42,344	2,3,4			20 17 psig	0200078		
1136	32010079	6	4,457	2,3,4			14 8 psig	0200374		
1142	32010092	161	13,032	2,3,4			60 35 psig	0200378		814058
1145	32010034	27	15,306	2,3,4			60 25 psig	0200380		
1146	32057001	9	1,375	2			60 11 psig	0200381		
1147	32010076	9	669	2			60 8.5 psig	0200382		
1149	32010037	272	18,883	2,3,4			60 20 psig	0200394		
1151	32010185	2	15	4			100 95 psig	0200470		814454
1154	32010083	72	16,335	2,3,4			8 6 psig	0200387		
1157	32010115	8	3,207	2,3			10 8 psig	0200390		
1159	32010093	31	996	4			LP 10" w.c.	0200392		
1163	32010140	1	5000 (aprox)	unk			10 9 psig	0200395		
1164	32010104	32	5,691	2,3,4			LP 10.5" w.c.	0200396		
1165	32010103	17	705	4			LP 10" w.c.	0200397		
1170	32010117	21	4,491	2,3			10 7.5 psig	0200458		
1171	32010095	12	3,455	2,3,4			6 5 psig	0200868		
1172	32010189	12	2,757	4,6			LP 10" w.c.	0200459		
1173	32010074	4	4,972	2,3,4,6,8			LP 10.5" w.c.	0200460		
1176	32010126	142	19,445	2,3,4			60 30 psig	0200476		
1177	32010128	331	21,441	2,3,4,6			60 30 psig	0200879		
1180	32010053	54	8,652	2,3			9 8 psig	0200874		
1181	32010119	14	2,610	2,3			60 10 psig	0200477		
1182	32010139	2	817	2,3			60 40 psig	0200876		
1183	32010136	7	2,190	2			60 10 psig	0200889		
1186	32047001	50	12,748	2,3,4			10 6 psig	0206235		
1187	32010113	23	9,642	2,3			10 8 psig	0206232		
1195	32068001	7	3,771	1,2			15 11 psig	0200972		
1199	32010098	26	5,998	2,3,4			20 15 psig	0206520		
1203	32010144	30	10,499	2,4			60 30 psig	0208722		
1204	32010080	36	4,407	2,3,4			60 22 psig	0208562		
1209	32010090	90	27,490	2,3,4,6,10			60 50 psig	0210214		

Station Number	System Number	Number Customers	Pipe Length (ft)	Pipe Size (in)	System Name	MAOP	Normal Operating Pressure	Premise ID	Station Location	Large Volume Customers
1210	32010082	5	1,058	2		60	15 psig	0210286		
1211	32010123	1	384	8		60	40 psig	0210709		846769
1215	32010051	1334	84,930	2,3,4,6		60	48 psig	0211762		805529, 845927
1217	32010192	6	1,800	2		15	10 psig	0212245		
1230	32010165	89	5,406	2,3,4		5	4 psig	0200191		
1230	32010166	122	11,417	2,3,4,6,8		LP	10" w.c.	0200191		
1237	32050001	6	2,410	2		10	7 psig	0200952		
1240	32010180	9	2,754	2		60	40 psig	0209287		
1251	32010176	926	93,386	1.25,2,2.5,3,4,6		20	17.5 psig	0200293		805295
1273	32047003	67	8,866	2,4,6		5	4 psig	0200310		
1276	32010188	6	28,747	6		99	73 psig	0200405		849278
1277	32010172	95	12,415	2,4		10	7 psig	0200335		
1278	32010174	58	5,873	1.25,2		10	7 psig	0200721		
1279	32010175	55	6,905	1.25,1.5,2,2.5		10	7 psig	0201008		
1280	32010179	93	5,257	2		60	28 psig	0201007		
1282	32064001	50	5,216	2,6		60	25 psig	0200921		
1285	32010182	10	8,003	2,4,6		60	50 psig	0211320		
1352	32051029	1	500 (approx)	unk		60	12 psig	0200015		
1366	32033001	5	3,614	2		10	5 psig	0200409		
1367	32023001	7	3,375	1.25,2		10	5 psig	0200410		
1375	32051008	19	52,155	2,10,12,16		60	30 psig	0209741		
1377	32051021	12	4,717	2		60	25 psig	0209818		
1379	32051025	15	10,436	2,4		60	40 psig	0210406		
1405	32005003	12	2,940	2,3,4		10	7.5 psig	0200811		
1406	32006001	4	525	2		16	7.5 psig	0200411		
1413	32039001	40	4,677	2,3,4,6,8		60	10 psig	0200207		
1425	32012003	142	34,303	2,3,4		42	30 psig	0200229		
1430	32034001	1	841	2		10	8 psig	0200421		
1434	32054001	27	25,352	2,3		60	25 psig	0200792		805682
1435	32053001	11	803	2		10	6 psig	0200892		
1439	32066002	9	440	2		60	20 psig	0210154		
1440	32017001	34	5,063	2,3,4		10	8 psig	0210363		
1441	32029001	55	8,070	2,3		10	7 psig	0210362		
1442	32056001	43	6,476	2,3,4		10	7 psig	0210230		
1462	32048007	5	3,536	2,4		8	6 psig	0200425		
1488	32065001	7	3,718	2		60	3 psig	0210247		
1523	32010067	88	5,423	2,4,8		15	12 psig	0200272		
1526	32010058	303	33,350	2,3,4,6		14	12 psig	0200143		
1529	32010064	35	8,353	2,3,6		20	14.5 psig	0200163		
1533	32010072	152	23,415	2,3,4,6		20	15 psig	0200144		
1536	32010068	115	14,173	2,4		12	7 psig	0200145		
1538	32010071	64	19,403	2,3,4,6		58	45 psig	0200445		804946, 844119, 845229, 848431
1539	32010069	19	6,798	2,3		24	18 psig	0200621		
1542	32010161	2	1,608	2		60	40 psig	0201005		
1543	32010070	110	35,356	2,3,4,6		60	50 psig	0201012		848556
1544	32010055	3	1000 (approx)	unk		15	10.5 psig	0201013		
1545	32010153	233	11,449	2,3		60	18 psig	0206664		
1547	32010063	33	2,681	2		10	8 psig	0200955		
1556	32010046	776	62,642	2,3,4		10	8 psig	0200238		
1564	32010154	784	51,235	2,4,6		30	25 psig	0200654		
1565	32010155	5	3,904	2,3,4		60	50 psig	0206610		
1568	32010156	495	50,302	2,4		60	30 psig	0200963		
1569	32010164	19	7,285	2,3,4		60	30 psig	0206597		

Station Number	System Number	Number Customers	Pipe Length (ft)	Pipe Size (in)	System Name	MAOP	Normal Operating Pressure	Premise ID	Station Location	Large Volume Customers
1570	32010159	23	14,872	2,4,6		60	40 psig	0206598		
1585	32010005	80	7,272	2,3,4		5	4.5 psig	0200247		805913
1586	32010007	107	7,518	2,3,4,6,8		7	6 psig	0200241		
1587	32010009	179	11,444	2,3,4,6		8	5 psig	0200242		
1590	32010006	8	1,023	3		10	8 psig	0200877		
1591	32010152	34	3,211	2		60	10 psig	0200724		
1594	32010148	14	4,269	2		60	10 psig	0206606		
1595	32010147	88	11,599	2,3		60	10 psig	0206607		
1597	32010162	6	3,209	2		60	25 psig	0206608		
1599	32010163	237	11,392	2,3		60	25 psig	0208608		
1617	32010021	32	10,595	2,4		18	10 psig	0200454		
1633	32010025	27	9,561	2		60	12 psig	0200740		
1635	32010039	32	10,302	2		60	12 psig	0206557		
1636	32010022	47	10,595	2,4		10	6 psig	0208335		
1638	32055001	92	36,866	2,3,4,6		60	50 psig	0210841		814673, 844014, 845843, 847691, 84862
1640	32010017	248	25,800	2,3,4,6		7	5 psig	0211082		804667
1664	32049003	94	15,096	2,3,4,6		20	15 psig	0200689		
1669	32049004	9	2,310	2		20	12 psig	0200691		
1670	32049005	151	24,223	2,4		60	23 psig	0200956		
1671	32049009	2	400	2		8	5 psig	0200888		
1672	32049002	48	7,016	2		8	5 psig	0206403		
1673	32049001	87	18,013	2,3		37	12 psig	0208560		
1674	32049010	3	338	2		60	10 psig	0208564		
1684	32001013	10	595	4		16	11 psig	0200706		
1687	32001015	24	2,347	2,4		6	5 psig	0200705		
1688	32001006	125	20,218	2,4		18	12 psig	0200708		
1690	32001021	81	25,816	2		36	30 psig	0200709		
1691	32001017	17	1,736	2		12	8 psig	0200710		
1692	32001008	54	6,109	2,3,4		15	12 psig	0200219		
1693	32001024	18	2,147	4		LP	10" w.c.	0200711		
1694	32001019	4	275	2		10	6 psig	0206455		
1695	32001007	2	3,588	2,3,4		LP	10" w.c.	0200900		
1696	32001005	5	1,224	2,3		60	35 psig	0209721		
1851	32010059	289	25,583	2,4,6		60	20 psig	0208498		
1853	32010150	13	1,474	3		60	18 psig	0209339		
1856	32010183	4	2,357	2		60	12 psig	0210886		
1857	32010184	4	765	2		60	14 psig	0210907		
1858	32010186	453	27,120	1,2,3,4,6,8		60	45 psig	0211194		
1859	32010045	26	7,518	2,3,4		5	3 psig	0211292		
817715	32007001	5	1,045	2		8	7.5 psig	0212035		
		6	4,500	unk		15	15 psig	0212247		
805544	32019001	163	43,042	1,2,3		41	25 psig	0212045		
817712	32044001	122	13,210	2,3,4		11	7.5 psig	0212036		
817714	32041001	20	9,492	1,2,4		8	6 psig	0212024		
817716	32040001	42	4,571	2,4		8	5.5 psig	0212031		
817717	32011001	38	14,053	2,3,4		50	35 psig	0212032		814480
817718	32043001	77	10,764	2,3,4		9	8 psig	0212035		
817719	32045001	39	5,289	2,3		10	9 psig	0212048		
817720	32042001	90	9,492	1,2,4		50	8.5 psig	0212039		
817721	32038001	75	27,866	1,2,3,4		60	35 psig	0212046		
817724	32018001	59	11,083	2,3,4		10	8 psig	0212246		

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