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January 10, 2014

**Via Email**  
**Original via Mail**

British Columbia Public Interest Advocacy Centre  
Suite 209 – 1090 West Pender Street  
Vancouver, B.C.  
V6E 2N7

Attention: Ms. Tannis Braithwaite, Acting Executive Director

Dear Ms. Braithwaite:

**Re: FortisBC Energy Inc. (FEI or the Company)**

**Application for a Certificate of Public Convenience and Necessity (CPCN) for the Huntingdon Station Bypass (the Application)**

**Response to the British Columbia Public Interest Advocacy Centre on behalf of the British Columbia Pensioners' and Seniors' Organization *et al* (BCPSO) Information Request (IR) No. 1**

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On October 25, 2013, FEI filed the Application as referenced above. In accordance with Commission Order G-185-13 setting out the Regulatory Timetable for the review of the Application, FEI respectfully submits the attached response to BCPSO IR No. 1.

If further information is required, please contact the undersigned.

Sincerely,

**FORTISBC ENERGY INC.**

***Original signed:***

Diane Roy

Attachments

cc: Commission Secretary  
Registered Parties (e-mail only)



FortisBC Energy Inc. (FEI or the Company) Application for a Certificate of Public Convenience and Necessity for the Huntingdon Station Bypass (the Application)	Submission Date: January 10, 2014
Response to British Columbia Public Interest Advocacy Centre on behalf of the British Columbia Pensioners' and Seniors' Organization <i>et al</i> (BCPSO) Information Request (IR) No. 1	Page 1

1    **1.0    Reference:    Exhibit B-1, General on Huntingdon Station**

2            1.1    Please provide the dates on which any material maintenance or repair activities  
3                    were performed on the Huntingdon Station, along with the details of any such  
4                    maintenance or repair activities.

5  
6    **Response:**

7    Please refer to Attachment 1.1, which documents the maintenance and repair activities since  
8    2002 when the Company's on-line maintenance system started.

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11  
12            1.2    Please provide the original cost of the Huntingdon Station when the assets were  
13                    first included in rate base.

14  
15    **Response:**

16    Huntingdon was part of the 1988 BC Hydro Gas acquisition by FEI (then BC Gas) which did not  
17    include detailed plant account records of the Huntingdon Station. As such, FEI is unable to  
18    identify the original cost of the Huntingdon Station when it was first included in Rate Base.

19  
20

21  
22            1.3    Please provide the current net book value of the assets associated with the  
23                    Huntingdon Station as of December 2013.

24  
25    **Response:**

26    As of December 31, 2013, the net book value of the FEI Huntingdon Station was \$5,742,695.

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29  
30            1.4    Please explain why the ability to isolate in the event of a single point failure was  
31                    not contemplated during the initial design phase for this station by building in  
32                    redundancy (which would mitigate current concerns).

33



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1 **Response:**

2 Please refer to the response to BCPSO IR 1.1.5.

3  
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5

6 1.5 Does FEI know why concerns about the potential impact of a single point failure  
7 at Huntingdon are only being brought before the BCUC now, given that the  
8 station has been in service for almost 60 years?

9

10 **Response:**

11 This response addresses both BCPSO IR 1.1.4 and 1.1.5.

12 FEI does not know the design criteria back in 1956 when the Huntingdon Station was  
13 constructed and commissioned and specifically the reasons for not incorporating full station  
14 redundancy (i.e. bypass). FEI assumes the Huntingdon Station's design met the standards,  
15 code and operational requirements applicable at the time.

16 Much has changed since the 1950s, including the increased number of customers served by  
17 this single supply source and the age of the facility. FEI has long been aware that the  
18 Huntingdon Station was a single-point-of-failure facility; however, the consequence of failure  
19 was clearly demonstrated during the 2008 incident (refer to the response to BCUC Confidential  
20 IR 1.4.1).

21 As outlined in FEI's (then Terasen Gas Inc.) 2010 and 2011 Revenue Requirements and  
22 Delivery Rates Application, FEI proposed plans to enhance its asset management practices.  
23 FEI stated that as the natural gas industry matures, system age becomes a more prominent  
24 consideration with oversight agencies, resulting in code enhancements to ensure that system  
25 integrity is maintained. Recent additions of Annex M & N to CSA Z662 brought heightened focus  
26 to integrity management. This underpinned the need for a comprehensive study to identify  
27 single points of failure on FEI's systems, and assess the probability of failures and the  
28 consequences of those failures.

29 Starting in 2010, a series of risk assessments were conducted for the Huntingdon Station.  
30 Based on the results, FEI believes that prolonging the lack-of-redundancy and the single point  
31 of failure situation is no longer an option as discussed in the Application (page 21). Deferring  
32 the project also means that complete maintenance of critical components and sections of piping  
33 be further delayed, which, in turn, increases the operational risk.

34

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1   **2.0   Reference:   Exhibit B-1, pages 16-17, Potential Impact of Single Point Failure**

2           Preamble:   FEI has estimated the total economic loss resulting from a complete  
3                        service outage at the Huntingdon Station to be in the magnitude of \$1  
4                        billion. Further, the risk per year with no bypass in place is quantified as  
5                        \$3.275M per year now, rising by 275% in five years to \$9.1162M per  
6                        year.

7           2.1    Do the figures in the preamble above indicate that there is approximately a 0.3%  
8                        probability of a catastrophic failure in the current year?  
9

10   **Response:**

11   The estimated magnitude of \$1 billion is a representation of the potential economic impact of a  
12   complete shutdown of the Huntingdon Station based on a case study in Melbourne, Australia.  
13   Please refer to the Application, Appendix A, for further discussion.

14   The \$3.275 million figure represents per year operational risk based on a quantitative risk  
15   assessment conducted by DRAS, which includes processes for quantifying the consequences  
16   of a breach in the pressure boundary, the likelihood of its occurrence, and the risk that is  
17   derived by assimilating consequences with failure likelihood. Please refer to the Application,  
18   Appendices C1 to C3.

19   There is no direct correlation between the two estimates.

20  
21

22

23           2.2    Please explain, at a high level, the reason that the risk is expected to increase by  
24                        275% over the next five years.

25

26   **Response:**

27   The reason the risk is expected to increase by 275 percent over the next five years is because  
28   the analysis was re-performed after aging all equipment in the Huntingdon Station by five years  
29   (refer to the Application, Confidential Appendix C1, page 46).

30



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1    **3.0    Reference:    Exhibit B-1, page 21, Option 2, Implementing O&M Changes**

2

3            3.1    Please explain why there is no cost estimate provided for this option.

4

5    **Response:**

6    Please refer to the response to BCUC IR 1.8.1.

7





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Response to British Columbia Public Interest Advocacy Centre on behalf of the British Columbia Pensioners' and Seniors' Organization <i>et al</i> (BCPSO) Information Request (IR) No. 1	Page 6

1 **5.0 Reference: Exhibit B-1, page 28, Table 4-2, Financial and Operational Risk**  
 2 **Comparison**

3 5.1 Please provide the discount rate that is used in the referenced table to calculate  
 4 the present values. Please also explain how the discount rate was determined.  
 5

6 **Response:**

7 The discount rate used to calculate the Present Values in Table 4-2 can be found in Appendices  
 8 F1 and F2 on Schedule 11, Line 17. The same discount rate was used for both Options 3 and  
 9 4.

10 The capital structure and return on equity is from the Generic Cost of Capital Phase 1 Decision  
 11 for FEI, dated May 10, 2013. The Cost of Debt is from the Compliance filing of FEI regarding  
 12 the Commission's Decision on the 2012-2013 FEU RRA.

13 The following table shows how the After Tax Weighted Average Cost of Capital is calculated,  
 14 which is also the AFUDC rate.

Source of Capital	Capital Structure		Cost of Capital		1 - Tax Rate	=	After Tax WACC
Long-term Debt	56.98%	x	6.87%	x	74%	=	2.90%
Unfunded Debt	4.52%	x	3.50%	x	74%	=	0.12%
Common Equity	<u>38.50%</u>	x	8.75%	x		=	<u>3.37%</u>
Total	100.00%						6.38%

15 Tax Rate is 26% 1

16

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<sup>1</sup> The components of the calculation have been rounded to two decimal places for presentation purposes. The AFUDC rate of 6.38% reflects the summation of the unrounded components and is then rounded to two decimal places.

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1    **6.0    Reference:    Exhibit B-1, page 38, Cost Estimate Details**

2    **Preamble:**    The reference page states:

3    *“2012 market prices have been used for the material supply and construction contracts.*

4    *An escalation rate of 4.5 percent per annum is used based on the ten year average*  
 5    *escalation rates from Statistics Canada for industrial construction and line pipe from*  
 6    *2002 to 2012.”*

7    6.1    Please provide the original source for the Statistics Canada data along with a  
 8    table showing the escalation or index number in each year from 2002 to 2012  
 9    (inclusive) that supports the proposed escalator.

10

11    **Response:**

12

**Price indexes of non-residential building construction, by class of structure  
 quarterly (index, 2002=100)**

13

**Table 327-0043<sup>2</sup>**

14

Class of structure	Year	Q1	Q2	Q3	Q4	Average (Calculated)
Total, industrial structures	2002	99.2	99.6	100	101.2	100
	2003	102.1	103	103.5	103.9	103.1
	2004	106.7	109.7	113	114.8	111.1
	2005	115.1	117	119.2	120.8	118.0
	2006	122.7	126.1	128.8	131.5	127.3
	2007	134.2	138.3	139.8	141.2	138.4
	2008	145.1	155.9	160	155.8	154.2
	2009	150.3	146.8	145.1	144.5	146.7
	2010	144.3	146.5	146.8	147.2	146.2
	2011	150	151.5	153.1	154.1	152.2
	2012	155.5	156.3	156.8	157.6	156.6

15

<sup>2</sup> <http://www5.statcan.gc.ca/cansim/a26?lang=eng&retrLang=eng&id=3270043&tabMode=dataTable&srchLan=-1&p1=-1&p2=9>



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**Industry price indexes for primary metal products and fabricated metal products**  
**Statistics Canada Table 329-0063<sup>3</sup>**  
**Line pipe, transport of natural gas and oil**

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average (Calculated)
2002	102.3	101	98.9	100	98.7	100.9	100.6	98.3	102.6	100	98.4	98.1	100.0
2003	96.5	99.2	99.3	98.8	98.3	100.2	99	98.8	99.1	99.9	99	97.2	98.8
2004	99.2	99.7	101	103.1	113.8	118.8	121.3	129.4	137.7	140.2	142.7	138.7	120.5
2005	148.3	152.9	145.1	139.1	143.7	141.2	136.5	130.6	132.2	136	135.5	136.4	139.8
2006	139.3	143.4	138.9	138.4	140.5	141.2	140.7	139.7	140	141.7	141.9	140.6	140.5
2007	140.3	140.2	136.7	137.1	136.7	133.3	135.5	137.2	137.2	137.6	137.1	137.2	137.2
2008	137.2	136.5	136.3	136.2	136.6	137.6	138.6	139.1	139.5	139.6	140.1	140.2	138.1
2009	140.4	139.9	140	139.8	139.8	139.9	139.4	140.1	139	139.3	138.1	138.2	139.5
2010	139.3	145.8	145.2	143.7	148.3	147.6	148.1	148.1	148.2	148.2	147.9	148.1	146.5
2011	148.5	148.7	148.9	149.5	149.8	152.7	152.4	152.2	153	154.1	155.5	156.6	151.8
2012	154.5	155.3	155.4	154.5	152.7	154.5	154.6	153.4	153.6	153	156.5	152.9	154.2

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<sup>3</sup> <http://www5.statcan.gc.ca/cansim/a26?lang=eng&retrLang=eng&id=3290063&tabMode=dataTable&srchLan=-1&p1=-1&p2=9>

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1     **7.0     Reference:     Exhibit B-1, page 13, line 3, Definition of Risk and General Use of the**  
2                                   **Term “Risk” in the Application, and Appendix E, Risk Analysis and**  
3                                   **Contingency Calculation**

4             **Preamble:**     The referenced definition, along with the use of the term “Risk” at many  
5                                   placed in the pre-filed evidence, seems to be identical with “Expected  
6                                   Value.”

7             7.1     Does FEI recognize that the term risk usually involves some notion of spread or  
8                                   variance (i.e., the square of the standard deviation of a random variable) even if  
9                                   only one random variable is involved? If not, please explain why not.

10

11     **Response:**

12     FEI recognizes that a risk analysis can include consideration for a variance, for example, with a  
13     Monte Carlo risk analysis.

14

15

16

17             7.2     Please identify how the spread of the possible outcomes of any single random  
18                                   variable have been accounted for in the non-confidential filing.

19

20     **Response:**

21     The AACE Recommended Practice No. 44R-08 does not require that the expected value  
22     calculations for contingency utilize the spread of possible outcomes of any single random  
23     variable. FEI has chosen not to complete a more complex statistical analysis for the calculation  
24     of contingency as described in AACE Recommended Practice No. 41R-08 for this relatively  
25     small project. Please also refer to the response to BCUC IR 1.23.2.1 for a further description of  
26     how FEI has chosen this risk analysis methodology.

27

28

29

30             7.3     Does FEI acknowledge that with multiple variables that each involve an uncertain  
31                                   outcome, an assessment of risk involves estimating not only the variances of  
32                                   each such variable, but also the covariances for each pair of such variables? If  
33                                   not, please explain why not.

34



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1 **Response:**

2 FEI recognizes that a risk analysis can include consideration for covariances for pairs of  
3 variables, for example, with a Monte Carlo risk analysis.

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6  
7 7.4 Please identify how the covariances between correlated variables have been  
8 accounted for in the non-confidential filing, including the analysis provided in  
9 Appendix E.

10

11 **Response:**

12 The AACE Recommended Practice No. 44R-08 does not require that the expected value  
13 calculations for contingency account for the covariance between variables. FEI has chosen not  
14 to complete a more complex statistical analysis for the calculation of contingency as described  
15 in AACE Recommended Practice No. 41R-08 for this relatively small project. Please also refer  
16 to the response to BCUC IR 1.23.2.1 for a further description of how FEI has chosen this risk  
17 analysis methodology.

18

**Attachment 1.1**

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List name	Year	Maintenance or Repair?	Is there a failure (Y/N)	Function	What equip is affected?	What is the issue?	Comments	Oper short txt
Huntingdon Station	2002	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Overhaul/Rebuild all soft components/orings		overhaul required for training purposes
Huntingdon Station	2002	Repair	Y	Odorization	Odorizer	Not pumping odorant		Odourant check @ Huntingdon Station
Huntingdon Station	2002	Repair	Y	Odorization	Odorizer	Not pumping odorant		called out by service centre pump 3 prob
Huntingdon Station	2002	Repair	Y	Odorization	Odorizer	Not pumping odorant		oderant pump repair
Huntingdon Station	2003	Repair	N	Odorization	Odorizer	No Issue		odorant noticed by gary shields
Huntingdon Station	2003	Maintenance	N	Odorization	Odorant Tank	Low Tank Level		oderant day tank low per tory gas contro
Huntingdon Station	2003	Maintenance	N	Odorization	Odorant Tank	Low Tank Level		odorant tank down to 25% refill required
Huntingdon Station	2003	Maintenance	N	Odorization	Odorant Tank	Refill	Switch Tanks	refill oderant tank ray and gord
Huntingdon Station	2003	Maintenance	N	Odorization	Odorant Tank	Low Tank Level		refill oderant tank per gas control
Huntingdon Station	2003	Repair	Y	Metering	Flow Meter	Meter spun backwards cause electronic failure		meter problem - caling for help
Huntingdon Station	2002	Maintenance	N	Odorization	Odorant Tank	Low Tank Level		hi priority oderant fill
Huntingdon Station	2004	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		Perform operational check
Huntingdon Station	2004	Repair	Y	Odorization	Odorizer	Not pumping odorant		Repair odourant pump
Huntingdon Station	2004	Repair	Y	Odorization	Odorant Tank	Auto Refill not functioning		repair odourant tank
Huntingdon Station	2004	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		Perform operational check
Huntingdon Station	2004	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		Perform operational check
Huntingdon Station	2004	Repair	Y	Odorization	Odorant Tank	Auto Refill not functioning		odorant repair
Huntingdon Station	2005	Repair	Y	Odorization	Odorizer	Not pumping odorant		investigate odor pump - hipcosippi line
Huntingdon Station	2004	Repair	Y	Flow Regulation	Valve	Valve Leaking/New seals required	Overhaul, outlet valve on one of the station runs	install new seals on valve
Huntingdon Station	2004	Repair	Y	Odorization	Odorizer	Not pumping odorant		investigate odor pump - hipcosippi line
Huntingdon Station	2005	Repair	Y	Odorization	Odorizer	Not pumping odorant		service pump #3

List name	Year	Maintenance or Repair?	Is there a failure (Y/N)	Function	What equip is affected?	What is the issue?	Comments	Oper short txt
Huntingdon Station	2005	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		Perform operational check
Huntingdon Station	2005	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		Perform operational check
Huntingdon Station	2005	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		Perform operational check
Huntingdon Station	2005	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		Perform operational check
Huntingdon Station 1 TP_TP	2005	Maintenance	N	Odorization	Odorizer	Overhaul Pump		Huntingdon Stn ABB LVI 2 Odor Insp Pump2
Huntingdon Station 1 TP_TP	2005	Repair	Y	Odorization	Odorizer	Not pumping odorant		Huntingdon Stn Pump #2 - ABB-relite Pump
Huntingdon Station 1 TP_TP	2005	Repair	Y	Odorization	Odorizer	Not pumping odorant		Huntingdon Stn Pump #1 ABB - No Odorant
Huntingdon Station 1 TP_TP	2005	Repair	Y	Odorization	Odorizer	Not pumping odorant		Huntingdon Stn - Restart Pumps 2&3
Huntingdon Station 1 TP_TP	2005	Repair	Y	Flow Regulation	Station Shutdown	Computer Control Malfunction	Station Shut in due to PLC control going down, had to put station into manual control	Huntingdon Station TP_TP
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station	2005	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		Perform operational check
Huntingdon Station	2005	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		Perform operational check
Huntingdon Station 1 TP_TP	2005	Maintenance	N	Odorization	Odorizer	Overhaul Pump		Huntingdon Stn ABB LVI 2 Odor Insp Pump1
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station	2006	Maintenance	N	Odorization	Odorant Tank	Low Tank Level		Huntingdon Stn - Low Odorant Tank 142
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection

List name	Year	Maintenance or Repair?	Is there a failure (Y/N)	Function	What equip is affected?	What is the issue?	Comments	Oper short txt
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station	2006	Maintenance	N	Odorization	Odorizer	Overhaul Pump		Huntingdon Stn Odor Pump 3 - Lvl 2 Inspe
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Annual		OPM05-20 Pulsa Feeder Level 2 Inspection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Annual		OPM05-20 Pulsa Feeder Level 2 Inspection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Annual		OPM05-20 Pulsa Feeder Level 2 Inspection
Huntingdon Station TP_TP	2006	Repair	Y	Odorization	Odorant System/Controls	Power Loss and Backup PLC Lithium battery dead causing the control system to have a lose of the control program and go to factory defaults	customer received gas but some portions not odorized	Electronic failure for odour't injection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station	2006	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check

List name	Year	Maintenance or Repair?	Is there a failure (Y/N)	Function	What equip is affected?	What is the issue?	Comments	Oper short txt
Huntingdon Station	2006	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2006	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station 1 TP_TP	2007	Repair	Y	Odorization	Odorant Pump	Vapor Lock		check no odorant flow
Huntingdon Station TP_TP	2007	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2007	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2007	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2007	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2007	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2007	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2007	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2007	Maintenance	N	Odorization	Odorant System	Annual		OPM05-20 Pulsa Feeder Level 2 Inspection
Huntingdon Station TP_TP	2007	Maintenance	N	Odorization	Odorant System	Annual		OPM05-20 Pulsa Feeder Level 2 Inspection



List name	Year	Maintenance or Repair?	Is there a failure (Y/N)	Function	What equip is affected?	What is the issue?	Comments	Oper short txt
Huntingdon Station TP_TP	2007	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2007	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2007	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station	2007	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2006	Maintenance	N	SCADA/Telemetry	Instrumentation	Annual End to End Check		1Y Telemetry Site Inspection
Huntingdon Station TP_TP	2007	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2007	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2007	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2007	Maintenance	N	SCADA/Telemetry	Instrumentation	Annual End to End Check		1Y Telemetry Site Inspection
Huntingdon Station 1 TP_TP	2007	Repair	Y	Odorization	Odorizer	Not pumping odorant		Odorant Pump #3 restart per gas load
Huntingdon Station	2007	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2007	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2007	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2007	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2007	Repair	N	Security	Security Alarm	False Alarm		Security Check @ Huntingdon Station
Huntingdon Station TP_TP	2007	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2007	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station	2007	Maintenance	N	Odorization	Odorant System	Annual		OPM05-20 Pulsa Feeder Level 2 Inspection
Huntingdon Station TP_TP	2007	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2007	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2007	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2007	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection

List name	Year	Maintenance or Repair?	Is there a failure (Y/N)	Function	What equip is affected?	What is the issue?	Comments	Oper short txt
Huntingdon Station	2007	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2007	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station TP_TP	2007	Maintenance	N	Odorization	Odorant Tank	Refill	Switch Tanks	Low Odorant Alarm
Huntingdon Station	2007	Repair	Y	Metering	Flow Meter	Stopped Measuring		RE & RE Turbine Huntingdon Station
Huntingdon Station	2007	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2007	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2007	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station TP_TP	2007	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2007	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2007	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2007	Repair	Y	Flow Regulation	Becker Pilot	Rebuild Required	Overhaul pilot control	repair pilot reg failing to lock up
Huntingdon Station	2007	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station	2007	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2008	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2008	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station TP_TP	2008	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2008	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2008	Repair	Y	Odorization	Odorant System	Over Odorizing		Retest and Sample - Huntingdon - Per ema
Huntingdon Station TP_TP	2008	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2008	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station	2008	Repair	N	Export	Export Valve	Lack of Lube, Grease Valve		Examination of Export Valve Huntingdon
Huntingdon Station	2008	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2008	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection

List name	Year	Maintenance or Repair?	Is there a failure (Y/N)	Function	What equip is affected?	What is the issue?	Comments	Oper short txt
Huntingdon Station	2008	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2008	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station TP_TP	2008	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2008	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2008	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2008	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2008	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station TP_TP	2008	Maintenance	N	Odorization	Odorant Tank	Low Tank Level		low odorant in north tank
Huntingdon Station	2008	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station	2008	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2008	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2008	Maintenance	N	Odorization	Odorant System	Annual		OPM05-20 Pulsa Feeder Level 2 Inspection
Huntingdon Station	2008	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2008	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2008	Repair	Y	Odorization	Odorizer	Not pumping odorant		Repair Odourant Pump #1
Huntingdon Station	2008	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2008	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2008	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station	2008	Repair	Y	Odorization	Pump 1	Vapor Lock		ODOR PUMP PROBLEM
Huntingdon Station	2008	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station TP_TP	2008	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection

List name	Year	Maintenance or Repair?	Is there a failure (Y/N)	Function	What equip is affected?	What is the issue?	Comments	Oper short txt
Huntingdon Station	2008	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2008	Maintenance	N	SCADA/Telemetry	Instrumentation	Annual End to End Check		1Y Telemetry Site Inspection
Huntingdon Station	2008	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2008	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2008	Repair	Y	Odorization	Odorant System	Power Gas Pressure/Under Odorize		low odorant power gas pressure
Huntingdon Station	2008	Repair	N	Building	Lighting	Replace ballasts/lamps		Contractor replaced lighting
Huntingdon Station	2009	Repair	Y	Metering	Flow Meter	Stopped Measuring		Stn#2 meter is not working
Huntingdon Station	2009	Repair	Y	Odorization	Import Pump	Under Odorizing		odorant system not working
Huntingdon Station	2009	Repair	Y	Metering	Flow Meter	Stopped Measuring		#2 Turbine not working
Huntingdon Station	2009	Repair	N	Grounds	Portable equipment	Flood warning		move equipment re:possible flooding
Huntingdon Station	2009	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2009	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2009	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2009	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2009	Repair	Y	Odorization	Import Pump	Vapor Lock		Repair Import Odourizer
Huntingdon Station	2009	Repair	Y	Export	Valve	Frozen/water in electrical junction box		Frozen Export Valve - Per Gas Control
Huntingdon Station TP_TP	2009	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2009	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station	2008	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2008	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2009	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2009	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection

List name	Year	Maintenance or Repair?	Is there a failure (Y/N)	Function	What equip is affected?	What is the issue?	Comments	Oper short txt
Huntingdon Station	2009	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2009	Repair	Y	Odorization	Pump 1&3	Vapor Lock	purge air from pumps	Huntingdon Station TP_TP
Huntingdon Station TP_TP	2009	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2009	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station	2009	Repair	Y	Security	Security Fence Sensors	Realign		reset security alarm per gas control
Huntingdon Station	2009	Repair	Y	Odorization	Odorizer	Not pumping odorant		Overhaul Odourant Pump
Huntingdon Station	2008	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2008	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2009	Maintenance	N	Odorization	Odorant System	Annual		OPM05-20 Pulsa Feeder Level 2 Inspection
Huntingdon Station	2009	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2009	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2009	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2009	Repair	Y	Unknown	Fitting/Union	Leaking, repaired/tighten union		Leak at the riser
Huntingdon Station	2009	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station	2009	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station TP_TP	2009	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2009	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2009	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2009	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2009	Maintenance	N	Odorization	Odorant Tank	Refill	Switch Tanks	Low Alarm
Huntingdon Station	2009	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection

List name	Year	Maintenance or Repair?	Is there a failure (Y/N)	Function	What equip is affected?	What is the issue?	Comments	Oper short txt
Huntingdon Station TP_TP	2009	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2009	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2009	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2009	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2009	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2009	Repair	Y	Power	Station Power	Lightening strike, lost Hydro		Value problem
Huntingdon Station	2009	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2009	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2009	Maintenance	N	SCADA/Telemetry	Instrumentation	Annual End to End Check		1Y Telemetry Site Inspection
Huntingdon Station TP_TP	2009	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2010	Repair	Y	Odorization	Import Pump	Vapor Lock	purge air from pump	No odourant flowing @ SIPI (Hunt.Intl)
Huntingdon Station	2010	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2010	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2010	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2010	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2009	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station	2010	Repair	Y	Export	Valve	Lack of Lube, Grease Valve		Unstick the export valve at the station
Huntingdon Station TP_TP	2010	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2010	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station	2010	Repair	Y	Odorization	Odorizer	Not pumping odorant		Inport odourant Pump Problem
Huntingdon Station	2010	Repair	Y	Odorization	Import Pump	Vapor Lock	purge air from pump	Dave Brewer to assist

List name	Year	Maintenance or Repair?	Is there a failure (Y/N)	Function	What equip is affected?	What is the issue?	Comments	Oper short txt
Huntingdon Station	2010	Repair	Y	Import	Metering	Electronic failure	need metering to determine odorant injection rate, no redundancy	Odourant alarm
Huntingdon Station TP_TP	2010	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2010	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station	2010	Repair	Y	Odorization	Pump 1	Vapor Lock	purge air from pump	odourant investigate
Huntingdon Station	2010	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2010	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2010	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2010	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2010	Repair	N	Security	Motion Detectors	No issue found		Motion Detectors
Huntingdon Station	2010	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station	2010	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2010	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station TP_TP	2010	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2010	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station	2010	Maintenance	N	Odorization	Odorant System	Annual		OPM05-20 Pulsa Feeder Level 2 Inspection
Huntingdon Station	2010	Repair	Y	Odorization	Pump 3	Vapor Lock	purge air from pump	odourant problems per Gas control
Huntingdon Station	2010	Maintenance	N	Odorization	Odorant Tank	Refill		Fill Tank @ Huntingdon Odourant System
Huntingdon Station	2010	Repair	Y	Metering	Annubar	Electronic failure	which to Station 2	Huntingdon Station
Huntingdon Station	2010	Repair	Y	Odorization	Pump 3	Blocked vent line/flow switch		Huntingdon Station
Huntingdon Station	2010	Repair	Y	Odorization	Solenoid Valve	Replaced/worn out		Huntington Odorizer Solenoid Repair
Huntingdon Station	2010	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection

List name	Year	Maintenance or Repair?	Is there a failure (Y/N)	Function	What equip is affected?	What is the issue?	Comments	Oper short txt
Huntingdon Station	2010	Repair	Y	Odorization	Odorant Tank	Autofill Not workings		Huntington Stn
Huntingdon Station TP_TP	2010	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2010	Repair	N	Security	Fence Sensors	Realign		Re arm security system
Huntingdon Station	2010	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station	2010	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2010	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2010	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2010	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2010	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2010	Maintenance	N	SCADA/Telemetry	Instrumentation	Annual End to End Check		1Y Telemetry Site Inspection
Huntingdon Station	2010	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2010	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection - To be done
Huntingdon Station	2010	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 December I
Huntingdon Station TP_TP	2010	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 December Inspection
Huntingdon Station	2010	Repair	N	Odorization	Building Odor Sensor Alarm	False Alarm		Gas concentration alarm
Huntingdon Station	2010	Repair	Y	Odorization	Odorizer	Not pumping odorant		Odor pump repair
Huntingdon Station	2010	Repair	Y	Odorization	Odorant Tank Lids/Latch/Hinges	Hinges/Latches broke		Huntington Station
Huntingdon Station	2011	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2011	Repair	Y	Odorization	Import Pump	Vapor Lock	purge air from pump	No Odourant
Huntingdon Station TP_TP	2011	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2011	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station	2011	Maintenance	N	Odorization	Odorant Tank	Low Tank Level	Switch Tanks	Odourant tank check
Huntingdon Station	2011	Repair	Y	Odorization	Odorant Building Sensor	Electronic failure		Huntington Stn, strong odour



List name	Year	Maintenance or Repair?	Is there a failure (Y/N)	Function	What equip is affected?	What is the issue?	Comments	Oper short txt
Huntingdon Station	2010	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2011	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2011	Repair	Y	Odorization	Odorizer	Not pumping odorant		Odour pump repair
Huntingdon Station	2011	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2011	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2011	Repair	Y	Odorization	Pump 2	Blocked vent line/flow switch	purge air from pump	Clear Vapour Lock
Huntingdon Station	2011	Maintenance	N	Safety	SCBA	Air Pack Expired		Station work
Huntingdon Station	2011	Maintenance	N	Safety	Spills Kit	Restock/Annual Inspection		Station work
Huntingdon Station	2011	Maintenance	N	Safety	Spills Kit	Annual Check		Spill Kit Inspection 1Y & Restock As Req
Huntingdon Station	2011	Repair	Y	Odorization	Import Pump	Vapor Lock	purge air from pump	Huntingdon Station
Huntingdon Station	2011	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2011	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2011	Maintenance	N	Odorization	Odorant Tank	Low Tank Level	Switch Tanks	Station check
Huntingdon Station TP_TP	2011	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2011	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2011	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2011	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station	2011	Repair	N	Security	Fence Sensors	Realign		100 Whatcom Rd, HUNTINGDON
Huntingdon Station	2011	Repair	N	Security	Alarm	Reset		RESET ALARM AT HUNGTING STN
Huntingdon Station TP_TP	2011	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2011	Repair	Y	Odorization	Pump 3	Motor drive replaced		Check odorant and gate access.
Huntingdon Station	2011	Maintenance	N	Odorization	Odorant System	Annual		OPM05-20 Pulse Feeder Level 1&2
Huntingdon Station	2011	Maintenance	N	Grounds/Buiding/Safety	Station	Monthly Site Check		Monthly (Grds/Bldg/Sec/FireX/Generator)

List name	Year	Maintenance or Repair?	Is there a failure (Y/N)	Function	What equip is affected?	What is the issue?	Comments	Oper short txt
Huntingdon Station TP_TP	2011	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2011	Maintenance	N	Grounds	Weed Control	Spraying weed control		on site while company sprays the weeds
Huntingdon Station	2011	Maintenance	N	Grounds/Builing/Safety	Station	Monthly Site Check		Monthly (Grds/Bldg/Sec/FireX/Generator)
Huntingdon Station	2011	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2011	Maintenance	N	Odorization	Odorant System	2y inspection/overhaul/replace solenoids		OPM05-20 Odorizer Level 1,2,3
Huntingdon Station	2011	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2011	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2011	Maintenance	N	Grounds/Builing/Safety	Station	Monthly Site Check		Monthly (Grds/Bldg/Sec/FireX/Generator)
Huntingdon Station	2011	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station	2011	Maintenance	N	Grounds/Builing/Safety	Station	Monthly Site Check		Monthly (Grds/Bldg/Sec/FireX/Generator)
Huntingdon Station	2011	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station	2011	Repair	Y	Odorization	Odorizer	Not pumping odorant		Repair odorant pump
Huntingdon Station TP_TP	2011	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2011	Repair	Y	Export	Valve	Electronic signal/valve position indicator		valve malfuntion
Huntingdon Station TP_TP	2011	Maintenance	N	Odorization	Odorant Tank	Obtaining Name Plate information		Inspect Odorizer Run Tank #1 24600 L for
Huntingdon Station TP_TP	2011	Maintenance	N	Odorization	Odorant Tank	Obtaining Name Plate information		Inspect Odorizer Run Tank #2 24600 L for
Huntingdon Station	2011	Maintenance	N	Grounds/Builing/Safety	Station	Monthly Site Check		Monthly (Grds/Bldg/Sec/FireX/Generator)
Huntingdon Station	2011	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2011	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2011	Repair	Y	Odorization	Odorant Flare Stack	Replaced/Corrosion		Repair odourant flair stack
Huntingdon Station	2011	Repair	N	Security	Fence Sensors	Realign		Security Alarms

List name	Year	Maintenance or Repair?	Is there a failure (Y/N)	Function	What equip is affected?	What is the issue?	Comments	Oper short txt
Huntingdon Station	2011	Maintenance	N	SCADA/Telemetry	Instrumentation	Annual End to End Check		1Y Telemetry Site Inspection
Huntingdon Station	2011	Repair	N	Security	Building 2	No issue found		Check Station 2 Valve building
Huntingdon Station	2011	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station TP_TP	2011	Maintenance	N	Odorization	Odorant Tank	Refill		Fill Bulk Tank, Skill Set: ODOR1
Huntingdon Station	2011	Repair	Y	Flow Regulation	Stn 2 I/P	Replaced I/P	switch to station 1	Check Control @ Huntingdon #2 Stn
Huntingdon Station	2011	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2011	Maintenance	N	Grounds/Building/Safety	Station	Monthly Site Check		Monthly (Grds/Bldg/Sec/FireX/Generator)
Huntingdon Station	2011	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2011	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2011	Repair	Y	Import	Metering Turbine	Electronic Module replaced		Station maintenance
Huntingdon Station TP_TP	2011	Maintenance	N	Odorization	Odorant Tank	Refill		Fill Bulk Tank, Skill Set: ODOR1
Huntingdon Station TP_TP	2011	Maintenance	N	Odorization	Odorant Tank	Refill		Fill Bulk Tank, Skill Set: ODOR1
Huntingdon Station	2011	Maintenance	N	Power System	Backup Power System Generator	3 Yr Service		3Y Emerg Gen Service/12V Bat Exchange
Huntingdon Station	2011	Maintenance	N	Safety	Fire Extinguisher	1Y Recertification		1Y Fire Extinguisher Recertification
Huntingdon Station	2011	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station	2011	Maintenance	N	Grounds/Building/Safety	Station	Monthly Site Check		Monthly (Grds/Bldg/Sec/FireX/Generator)
Huntingdon Station TP_TP	2011	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2011	Repair	Y	Import	Metering Turbine	Replace		HIPCO 24" Line - import line and mtr
Huntingdon Station	2011	Repair	N	Security	Building 2	Door left open		Security Violation
Huntingdon Station	2011	Repair	N	Odorization	Building Odor Sensor Alarm	No issue found		High mercaptin at Huntingdon
Huntingdon Station	2011	Repair	N	Odorization	Building Odor Sensor Alarm	No issue found		Station alarm
Huntingdon Station	2011	Maintenance	N	Export/Import	Valves	1Y Service/Grease/Operation Check		1Y Valve/Actuator Service

List name	Year	Maintenance or Repair?	Is there a failure (Y/N)	Function	What equip is affected?	What is the issue?	Comments	Oper short txt
Huntingdon Station	2011	Maintenance	N	Grounds	Drainage	1Y Inspection		1Y Manhole Storm Drain Check
Huntingdon Station	2011	Maintenance	N	Building	Electric Heater	1Y Inspection/Service		1Y Electric Heater Inspection
Huntingdon Station	2011	Maintenance	N	Security	Security System	Annual End to End Check		1Y Service Security Gate/Fence
Huntingdon Station	2011	Maintenance	N	Grounds/Building/Safety	Station	Monthly Site Check		Monthly (Grds/Bldg/Sec/FireX/Generator)
Huntingdon Station	2011	Repair	Y	Odorization	Pump 1	Stroke Adjuster worn out, replaced flow adjuster		Replace Conno stroke adjuster
Huntingdon Station	2011	Repair	Y	Metering	Stn 2 Flow stuck	Electronic Failure, reset electronics		Huntingdon station
Huntingdon Station	2011	Repair	Y	Building	Lighting	Lights & Photos cell needs replacing		Housekeeping
Huntingdon Station	2011	Maintenance	N	Export/Import	Valves	1Y Service/Grease/Operation Check		1Y Valve/Actuator Service
Huntingdon Station	2011	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station	2011	Repair	Y	Flow Regulation	Stn 2	Control system needs resetting		Station maintenance
Huntingdon Station	2012	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station TP_TP	2011	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2011	Repair	N	Security	Alarm	Reset		HUNTINGTON STATION
Huntingdon Station	2011	Repair	Y	Odorization	Import Pump	Vapor Lock	purge air from pump	Odourant Problem
Huntingdon Station	2011	Repair	Y	Odorization	Charcoal Filters	Age, Replace		Parts required.
Huntingdon Station	2011	Repair	Y	Odorization	Import Pump	Vapor Lock	purge air from pump	Odourant
Huntingdon Station	2011	Maintenance	N	Safety	Hoist	1Y Recertification		Overhead Crane Inspection 1Y
Huntingdon Station	2012	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2012	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station	2012	Repair	Y	Odorization	Pump	Over Odorizing	injection ratio too high	High odorant levels
Huntingdon Station	2012	Repair	Y	Flow Regulation	Instrument Air	Possibly undersized	if no instrument air, would need to go into Manual control of station	Instrument Air low pressure
Huntingdon Station	2012	Maintenance	N	Grounds/Building/Safety	Station	Monthly Site Check		Monthly (Grds/Bldg/Sec/FireX/Generator)
Huntingdon Station	2012	Repair	Y	Odorization	Import Pump	Vapor Lock	purge air from pump	Odourant system

List name	Year	Maintenance or Repair?	Is there a failure (Y/N)	Function	What equip is affected?	What is the issue?	Comments	Oper short txt
Huntingdon Station	2012	Repair	Y	Building	Hoist	Chain & trolley needed replacing		Huntingdon Stn #2 Hoist Repair/Replace
Huntingdon Station	2012	Repair	Y	Odorization	Pump	Over Odorizing	injection ratio too high	Check Injection rate recalculate
Huntingdon Station	2012	Repair	Y	Odorization	Odorant Flare Stack	Repair		Odourant line repair
Huntingdon Station	2012	Maintenance	N	Flow Regulation	Main/Monitor/Actuators	Overhaul/Rebuild all soft components/orings	Planned overhaul	Overhaul Main/monitor regulators Stn#2
Huntingdon Station	2012	Maintenance	N	Flow Regulation	Instrument Air	Switch from B to A system		Switch compressor B to A
Huntingdon Station	2012	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Overhaul/Rebuild all soft components/orings		Regulators & Monitors Overhaul
Huntingdon Station	2012	Maintenance	N	Safety	Hoist	1Y Recertification		Crane/Hoist Inspection/Maintenance 1Y
Huntingdon Station	2012	Maintenance	N	Grounds/Building/Safety	Station	Monthly Site Check		Monthly (Grds/Bldg/Sec/FireX/Generator)
Huntingdon Station	2012	Repair	Y	Odorization	Pump	Vapor Lock		Huntingdon Station
Huntingdon Station	2012	Maintenance	N	Power System	Backup Power System Generator	1Yr Service		1Y Emergency Generator Service
Huntingdon Station TP_TP	2012	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2012	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2012	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2012	Repair	Y	Safety	Fire Suppression System	Inspect & Replace Batteries/3rd Party		Huntington Stn, ABB - fire suppression
Huntingdon Station	2012	Repair	Y	Odorization	Import Pump	Vapor Lock	purge air from pump	SIPI odorant not working
Huntingdon Station	2012	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Overhaul/Rebuild all soft components/orings		Regulators & Monitors Overhaul
Huntingdon Station	2011	Maintenance	N	Flow Regulation	Stn 1 Valves	1Y Service/Grease/Operation Check		1Y Valve/Actuator Service
Huntingdon Station	2011	Maintenance	N	Flow Regulation	Stn 2 Valves	1Y Service/Grease/Operation Check		1Y Valve/Actuator Service
Huntingdon Station	2012	Maintenance	N	Flow Regulation	Stn 1 Valves	1Y Service/Grease/Operation Check		1Y Valve/Actuator Service
Huntingdon Station	2012	Maintenance	N	Flow Regulation	Stn 2 Valves	1Y Service/Grease/Operation Check		1Y Valve/Actuator Service

List name	Year	Maintenance or Repair?	Is there a failure (Y/N)	Function	What equip is affected?	What is the issue?	Comments	Oper short txt
Huntingdon Station	2012	Repair	Y	Odorization	Import Pump	Vapor Lock	replaced vapor lock bleed valve	Odourant system
Huntingdon Station	2012	Maintenance	N	Safety	Spills Kit	Annual Check		Spill Kit Inspection 1Y
Huntingdon Station	2012	Maintenance	N	Safety	Spills Kit	Annual Check		Spill Kit Inspection 1Y
Huntingdon Station	2012	Maintenance	N	Odorization	Odorant Tanks	Inspect/Certify with BC Safety Authority		Huntingdon Odorant Pressure Vessels
Huntingdon Station	2012	Maintenance	N	Grounds/Building/Safety	Station	Monthly Site Check		Monthly (Grds/Bldg/Sec/FireX/Generator)
Huntingdon Station TP_TP	2012	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2012	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station	2012	Maintenance	N	Grounds/Building/Safety	Station	Monthly Site Check		Monthly (Grds/Bldg/Sec/FireX/Generator)
Huntingdon Station	2012	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2012	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2012	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2011	Maintenance	N	Building	Signage	No issue		Sign for Air Compressor Building
Huntingdon Station	2012	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2012	Maintenance	N	Grounds/Building/Safety	Station	Monthly Site Check		Monthly (Grds/Bldg/Sec/FireX/Generator)
Huntingdon Station	2012	Maintenance	N	Odorization	Odorant System	Annual		OPM05-20 Pulse Feeder Level 1&2
Huntingdon Station TP_TP	2012	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2012	Repair	N	Security	Work Shop Building	Wind/rattled door		Check site, reset alarm
Huntingdon Station	2012	Maintenance	N	Grounds/Building/Safety	Station	Monthly Site Check		Monthly (Grds/Bldg/Sec/FireX/Generator)
Huntingdon Station	2012	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2012	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2012	Maintenance	N	Odorization	Odorant Tank	Low Tank Level		Low odourant tank
Huntingdon Station	2012	Repair	Y	Odorization	Pump 2	Stroke Adjuster worn out, replaced flow adjuster		Odourant #2

List name	Year	Maintenance or Repair?	Is there a failure (Y/N)	Function	What equip is affected?	What is the issue?	Comments	Oper short txt
Huntingdon Station	2012	Maintenance	N	Building	Signage	Confined Space Signage installed		For the following site located at Huntin
Huntingdon Station	2012	Maintenance	N	Grounds/Builing/Safety	Station	Monthly Site Check		Monthly (Grds/Bldg/Sec/FireX/Generator)
Huntingdon Station	2012	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2012	Maintenance	N	Odorization	Odorant System	Annual		OPM05-20 Odorizer Level 1, 2 Inspection
Huntingdon Station	2012	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2012	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2012	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station	2012	Maintenance	N	Grounds/Builing/Safety	Station	Monthly Site Check		Monthly (Grds/Bldg/Sec/FireX/Generator)
Huntingdon Station	2012	Repair	Y	Safety	Fire Suppression System	Inspect & Replace Batteries/3rd Party		Fire Safety Alarm service
Huntingdon Station	2012	Repair	Y	Flow Regulation	I/P transducer	Electronic failure/replace		Transducer Required
Huntingdon Station TP_TP	2012	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2012	Repair	Y	Odorization	Odorant System/Fittings	Leak		Check Odourant System
Huntingdon Station	2012	Maintenance	N	Grounds/Builing/Safety	Station	Monthly Site Check		Monthly (Grds/Bldg/Sec/FireX/Generator)
Huntingdon Station	2012	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2012	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2012	Maintenance	N	Grounds/Builing/Safety	Station	Monthly Site Check		Monthly (Grds/Bldg/Sec/FireX/Generator)
Huntingdon Station	2012	Repair	Y	Safety	Fire Alarm	Breaker Fuse		fire alarm going off per gas control
Huntingdon Station	2012	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2012	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2012	Maintenance	N	Odorization	Odorant Tank	Refill		Odorant add-as per Humeny

List name	Year	Maintenance or Repair?	Is there a failure (Y/N)	Function	What equip is affected?	What is the issue?	Comments	Oper short txt
Huntingdon Station	2012	Repair	Y	Flow Regulation	Instrument Air	Flow Control Program/PLC issue		Instrument issue
Huntingdon Station TP_TP	2012	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2012	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station	2012	Maintenance	N	Grounds/Builing/Safety	Station	Monthly Site Check		Monthly (Grds/Bldg/Sec/FireX/Generator)
Huntingdon Station	2012	Repair	Y	Odorization	Pump	Vapor Lock		Deoderizer not working
Huntingdon Station	2012	Repair	Y	Odorization	Odorizer	Not pumping odorant		Restart Odorant Pump
Huntingdon Station TP_TP	2012	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2012	Maintenance	N	Grounds/Builing/Safety	Station	Monthly Site Check		Monthly (Grds/Bldg/Sec/FireX/Generator)
Huntingdon Station	2012	Repair	Y	Flow Regulation	I/P transducer	Electronic failure/replace		Transmission I to P - #1 Station
Huntingdon Station	2012	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station	2012	Maintenance	N	Flow Regulation	Instrument Air	1Y Service		Instrument Air Compressor 1Y Service
Huntingdon Station	2012	Repair	Y	Odorization	Odorizer	Not pumping odorant		pump failure
Huntingdon Station	2012	Maintenance	N	Safety	Fire Extinguisher	1Y Recertification		1Y Fire Extinguisher Recertification
Huntingdon Station	2012	Maintenance	N	Grounds	Drainage	1Y Inspection		1Y Manhole Storm Drain Check
Huntingdon Station	2012	Maintenance	N	Security	Security System	Annual End to End Check		1Y Service Security Gate/Fence
Huntingdon Station	2012	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station	2012	Maintenance	N	Export/Import	Valves	1Y Service/Grease/Operation Check		1Y Valve/Actuator Service
Huntingdon Station	2013	Maintenance	N	Flow Regulation	Stn 1 Valves	1Y Service/Grease/Operation Check		1Y Valve/Actuator Service
Huntingdon Station	2013	Maintenance	N	Flow Regulation	Stn 2 Valves	1Y Service/Grease/Operation Check		1Y Valve/Actuator Service
Huntingdon Station	2012	Maintenance	N	Odorization	Odorant Tank	Low Tank Level		Low Oderant tank level
Huntingdon Station TP_TP	2012	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2013	Maintenance	N	Building	HVAC/Hot Water	3M Inspection		3M Gas Heater Check For Leaks/Operation
Huntingdon Station	2013	Maintenance	N	Grounds	Drainage	1Y Inspection		1Y Manhole Storm Drain Check



List name	Year	Maintenance or Repair?	Is there a failure (Y/N)	Function	What equip is affected?	What is the issue?	Comments	Oper short txt
Huntingdon Station	2013	Maintenance	N	Building	Electric Heater	1Y Inspection/Service		1Y Electric Heater Inspection
Huntingdon Station	2013	Maintenance	N	Security	Security System	Annual End to End Check		1Y Service Security Gate/Fence
Huntingdon Station	2013	Maintenance	N	Power System	Backup Power System Generator	1Yr Service		1Y Emergency Generator Service
Huntingdon Station	2013	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2013	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2012	Maintenance	N	SCADA/Telemetry	Instrumentation	Annual End to End Check		1Y Telemetry Site Inspection
Huntingdon Station	2013	Repair	N	Security	Security Alarm	Reset		RESET SECURITY
Huntingdon Station	2012	Maintenance	N	Grounds/Building/Safety	Station	Monthly Site Check		Monthly (Grds/Bldg/Sec/FireX/Generator)
Huntingdon Station	2012	Repair	N	Grounds	Grounds	Clean up yard/debris stuff		Station safety check
Huntingdon Station	2013	Repair	Y	Odorization	Import Pump	Repaired		Import Odorizer
Huntingdon Station	2012	Maintenance	N	Building	HVAC/Hot Water	3M Inspection		3M Gas Heater Check For Leaks/Operation
Huntingdon Station	2012	Maintenance	N	Building	HVAC/Hot Water	3M Inspection		3M Gas Heater Check For Leaks/Operation
Huntingdon Station	2012	Repair	N	Odorization	Piping & Fittings	Corrosion/Age needs replacing		Huntingdon Odorant Transfer Piping/Valve
Huntingdon Station	2013	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2013	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2013	Maintenance	N	Safety	Hoist	1Y Recertification		Crane/Hoist Inspection/Maintenance 1Y
Huntingdon Station	2013	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2013	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2013	Maintenance	N	Grounds/Building/Safety	Station	Monthly Site Check		Monthly (Grds/Bldg/Sec/FireX/Generator)
Huntingdon Station	2013	Repair	Y	Odorization	Odorizer	Not pumping odorant		Odorant Pump Out
Huntingdon Station	2013	Repair	Y	Odorization	Unknown/System	Under Odorizing		check odourant
Huntingdon Station	2013	Repair	Y	Odorization	Odorant Flare Stack	Repair/Corrosion		Repair odourant flare stack
Huntingdon Station	2013	Maintenance	N	Safety	Spills Kit	Annual Check		Spill Kit Inspection 1Y
Huntingdon Station	2013	Maintenance	N	Safety	Spills Kit	Annual Check		Spill Kit Inspection 1Y

List name	Year	Maintenance or Repair?	Is there a failure (Y/N)	Function	What equip is affected?	What is the issue?	Comments	Oper short txt
Huntingdon Station	2013	Maintenance	N	Grounds/Building/Safety	Station	Monthly Site Check		Monthly (Grds/Bldg/Sec/FireX/Generator)
Huntingdon Station	2013	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2013	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2013	Maintenance	N	Odorization	Odorant Tanks	Refill		Oderant Delivery
Huntingdon Station	2013	Repair	Y	Odorization	Odorant Fill Header	Cam Lock Fitting replace/age worn out		Replace Cam lock fitting on the Odorant
Huntingdon Station	2013	Maintenance	N	Building	HVAC/Hot Water	3M Inspection		3M Gas Heater Check For Leaks/Operation
Huntingdon Station	2013	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2013	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2013	Repair	Y	Odorization	Odorizer	Not pumping odorant		Odourant pump not working
Huntingdon Station	2013	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2013	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2013	Maintenance	N	Grounds/Building/Safety	Station	Monthly Site Check		Monthly (Grds/Bldg/Sec/FireX/Generator)
Huntingdon Station	2013	Maintenance	N	Grounds/Building/Safety	Station	Monthly Site Check		Monthly (Grds/Bldg/Sec/FireX/Generator)
Huntingdon Station TP_TP	2013	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2013	Repair	Y	Odorization	Pump 1	Not pumping odorant		Huntingdon Odourant Station
Huntingdon Station	2013	Repair	Y	Odorization	Pump 1	Not pumping odorant	switch to Pump 1	Odorant alarm
Huntingdon Station	2013	Maintenance	N	Odorization	Odorant System	Annual		OPM05-20 Pulse Feeder Level 1&2
Huntingdon Station	2011	Maintenance	N	Building	HVAC/Hot Water	3M Inspection		3M Gas Heater Check For Leaks/Operation
Huntingdon Station	2011	Maintenance	N	Building	HVAC/Hot Water	3M Inspection		3M Gas Heater Check For Leaks/Operation
Huntingdon Station	2011	Maintenance	N	Building	HVAC/Hot Water	3M Inspection		3M Gas Heater Check For Leaks/Operation
Huntingdon Station	2011	Maintenance	N	Building	HVAC/Hot Water	3M Inspection		3M Gas Heater Check For Leaks/Operation

List name	Year	Maintenance or Repair?	Is there a failure (Y/N)	Function	What equip is affected?	What is the issue?	Comments	Oper short txt
Huntingdon Station	2012	Maintenance	N	Building	HVAC/Hot Water	3M Inspection		3M Gas Heater Check For Leaks/Operation
Huntingdon Station	2012	Maintenance	N	Building	Electric Heater	1Y Inspection/Service		1Y Electric Heater Inspection
Huntingdon Station	2012	Maintenance	N	Building	HVAC/Hot Water	3M Inspection		3M Gas Heater Check For Leaks/Operation
Huntingdon Station	2013	Repair	N	Security	Building alarm	reset		Reset alarm
Huntingdon Station	2013	Repair	Y	Building	Meter for HVAC/Hot Tank	Regulator failure CS400 replaced	small residential meter/regulator	leak at the valve
Huntingdon Station	2012	Engineering Assessment	N	Odorization	Odorant System	Electronic Upgrade review		Huntingdon-odor tank vacuum switch FEED
Huntingdon Station	2013	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2013	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2013	Maintenance	N	Grounds/Building/Safety	Station	Monthly Site Check		Monthly (Grds/Bldg/Sec/FireX/Generator)
Huntingdon Station	2013	Maintenance	N	Grounds/Building/Safety	Station	Monthly Site Check		Monthly (Grds/Bldg/Sec/FireX/Generator)
Huntingdon Station	2013	Repair	N	Security	Building alarm	reset		Security alarm disabled
Huntingdon Station	2013	Maintenance	N	Building	HVAC/Hot Water	3M Inspection		3M Gas Heater Check For Leaks/Operation
Huntingdon Station TP_TP	2013	Maintenance	N	Odorization	Odorant System	2y inspection/overhaul/replace solenoids		OPM05-20 Level 1,2,3 & Replace Solenoids
Huntingdon Station	2013	Repair	N	Security	Building alarm	reset		reset security
Huntingdon Station	2013	Repair	N	Security	Building alarm	reset		reset security
Huntingdon Station	2013	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2013	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2013	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station TP_TP	2013	Maintenance	N	Odorization	Odorant System	Monthly Check		Odorizer Level 1 Inspection
Huntingdon Station	2013	Repair	N	Security	Building alarm	reset		Security alarm disabled
Huntingdon Station	2013	Repair	N	Security	Building alarm	reset		Reset Alarm
Huntingdon Station	2013	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2013	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2013	Maintenance	N	Odorization	Odorant Tanks	Refill		Odourant Delivery refill tanks

List name	Year	Maintenance or Repair?	Is there a failure (Y/N)	Function	What equip is affected?	What is the issue?	Comments	Oper short txt
Huntingdon Station	2013	Maintenance	N	Grounds/Building/Safety	Station	Monthly Site Check		Monthly (Grds/Bldg/Sec/FireX/Generator)
Huntingdon Station	2013	Repair	N	Security	Fence alarm	reset		Reset Gate Alarm
Huntingdon Station	2013	Repair	N	Unknown	Unknown	Back hoe required for something		Backhoe Required
Huntingdon Station	2013	Maintenance	N	Grounds/Building/Safety	Station	Monthly Site Check		Monthly (Grds/Bldg/Sec/FireX/Generator)
Huntingdon Station	2013	Maintenance	N	Safety	SCBA Check/Recertify	Annual SCBA inspection/recertify		Scott Airpack Checks
Huntingdon Station	2013	Maintenance	N	Odorization	Odorant System	Monthly Check		OPM05-20 Pulsa Feeder Level 1 Inspection
Huntingdon Station	2013	Repair	Y	Building	Lighting	Replace/Repair		Station work
Huntingdon Station	2013	Maintenance	N	Building	HVAC/Hot Water	3M Inspection		3M Gas Heater Check For Leaks/Operation
Huntingdon Station	2013	Maintenance	N	Odorization	Odorant Tank	Low Tank Level		Odorant fill
Huntingdon Station	2013	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2013	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2013	Maintenance	N	Grounds/Building/Safety	Station	Monthly Site Check		Monthly (Grds/Bldg/Sec/FireX/Generator)
Huntingdon Station	2013	Repair	N	Security	Building alarm	reset		Station Alarm
Huntingdon Station	2013	Maintenance	N	Export/Import	Valves	1Y Service/Grease/Operation Check		1Y Valve/Actuator Service
Huntingdon Station	2013	Maintenance	N	Grounds/Building/Safety	Station	Monthly Site Check		Monthly (Grds/Bldg/Sec/FireX/Generator)
Huntingdon Station	2013	Maintenance	N	Grounds/Building/Safety	Station	Monthly Site Check		Monthly (Grds/Bldg/Sec/FireX/Generator)
Huntingdon Station	2013	Maintenance	N	Odorization	Odorant Tank	Low Tank Level		Switch odor tanks
Huntingdon Station	2013	Maintenance	N	Safety	Fire Extinguisher	1Y Recertification		1Y Fire Extinguisher Recertification
Huntingdon Station	2013	Repair	Y	Flow Regulation	Instrument Air	Solenoid Valves/switches need replacing/melted		Solenoid switches in control box for air
Huntingdon Station	2013	Maintenance	N	SCADA/Telemetry	Instrumentation	Annual End to End Check		1Y Telemetry Site Inspection
Huntingdon Station	2013	Maintenance	N	Grounds/Building/Safety	Station	Monthly Site Check		Monthly (Grds/Bldg/Sec/FireX/Generator)

List name	Year	Maintenance or Repair?	Is there a failure (Y/N)	Function	What equip is affected?	What is the issue?	Comments	Oper short txt
Huntingdon Station	2014	Maintenance	N	SCADA/Telemetry	Instrumentation	Annual End to End Check		1Y Telemetry Site Inspection
Huntingdon Station	2014	Maintenance	N	Building	HVAC/Hot Water	3M Inspection		3M Gas Heater Check For Leaks/Operation
Huntingdon Station	2014	Maintenance	N	Export/Import	Valves	1Y Service/Grease/Operation Check		1Y Valve/Actuator Service
Huntingdon Station	2014	Maintenance	N	Flow Regulation	Stn 1 Valves	1Y Service/Grease/Operation Check		1Y Valve/Actuator Service
Huntingdon Station	2014	Maintenance	N	Flow Regulation	Stn 2 Valves	1Y Service/Grease/Operation Check		1Y Valve/Actuator Service
Huntingdon Station	2014	Maintenance	N	Grounds	Drainage	1Y Inspection		1Y Manhole Storm Drain Check
Huntingdon Station	2014	Maintenance	N	Building	Electric Heater	1Y Inspection/Service		1Y Electric Heater Inspection
Huntingdon Station	2014	Maintenance	N	Security	Security System	Annual End to End Check		1Y Service Security Gate/Fence
Huntingdon Station	2014	Maintenance	N	Safety	Hoist	1Y Recertification		Crane/Hoist Inspection/Maintenance 1Y
Huntingdon Station	2014	Maintenance	N	Power System	Backup Power System Generator	3 Yr Service		3Y Emerg Gen Service/12V Bat Exchange
Huntingdon Station	2014	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2014	Maintenance	N	Flow Regulation	Flow Control Valves/Regulators	Check Operation		OPM 05-01 Perform operational check
Huntingdon Station	2014	Maintenance	N	Safety	Spills Kit	Annual Check		Spill Kit Inspection 1Y
Huntingdon Station	2014	Maintenance	N	Safety	Spills Kit	Annual Check		Spill Kit Inspection 1Y