Pacific Gas and Electric Company®

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June 7, 2013

Brigadier General Jack Hagan
California Public Utilities Commission
505 Van Ness Avenue, Room 2205
San Francisco, CA 94102-3298

Re: Update to PG&E's Transmission Assessment Plans

Dear General Hagan:

As a courtesy, PG&E is providing copies of its updated Transmission Assessment Plan for PG&E and for Standard Pacific Gas Line (Stan Pac).

The assessment plans are updated annually and details PG&E's schedule to conduct transmission integrity assessments.

The plans have been developed based upon PG&E's risk assessment and threat identification procedures that were updated in 2012 as part of PG&E's on-going continuous improvement efforts which align with the improvement recommendations outlined in the NTSB Report.

If there are any questions regarding this report, please contact me or Frances Yee, Acting Director of Regulatory Compliance & Support, at (925) 974-4316.

Sincerely,

Bennie Barnes

cc: Mike Roberston, CPUC
Information Resources Manager
DOT/PHMSA - Office of Pipeline Safety

Redacted
Roland Trevino, PG&E
Redacted
Redacted
Frances Yee, PG&E

<Attachment:2012 PGE BAP Final Rev 8.pdf>
<Attachment: 2012 StanPac BAP Rev 8.pdf

PACIFIC GAS AND ELECTRIC COMPANY

GAS OPERATIONS

PUBLIC SAFETY & ASSET INTEGRITY

Transmission Integrity Management Assessment Plan

Revision 8

Gas Transmission Integrity Management Program

for PG&E

Prepared By: Redacted

Concur: Redacted

Concur:

Concur: _____ Date: 4/24/2013____

Bennie Barnes, Director
Transmission Integrity Management

Concur: _____ Date: 4/15/2013____

Sanford Hartman, Vice President
Managing Director, Law

Approved By: _____ Date: 4/29/2013____

Roland Trevino, Vice President
Public Safety &Asset Integrity

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INTRODUCTION

This document is Revision 8 of Pacific Gas and Electric Company's Transmission Integrity Management Assessment Plan, and is intended to meet the requirement of a Baseline Assessment Plan (BAP)[1] as prescribed in 49CFR192 subpart O and PG&E's Gas Transmission Risk Management Procedure (RMP), RMP-06. This revision to the assessment plan contains the results from PG&E's 2012 High Consequence Area (HCA) analysis, updates to its threat identification and updates to the current assessment plan for covered pipeline segments in PG&E's gas transmission system[2].

Introduced to this revision are "master HCAs." A master HCA combines physically connected HCA segments in the same route into a continuous master segment with begin and end mile points. This master HCA has been instituted to facilitate scheduling and to balance increased segmentation of the transmission system within PG&E's GIS system due to increased granularity in record keeping practices.

A master HCA segment may contain one or more pipe diameter, wall thicknesses, coating thicknesses or other physical attributes or operating characteristics but will be managed at the master HCA segment level for scheduling purposes. PG&E may also include small non-HCA segments within a master HCA to facilitate scheduling.

The Assessment Plan is updated per RMP-06 Section 9.5 to document risk, potential threats and the assessment schedule at a summarized level which will be described in more detail in the narratives listed below.

The Integrity Management Program and associated assessments will be executed with adequate safety and environmental safeguards in place, pursuant to Section 20, "Environmental and Safety Measures" of RMP-06 and the procedures referenced in that section.

[1] An assessment plan for facilities operated by Standard Pacific Gas Line Inc. has been prepared separately.
[2] At the request of the California State Lands Commission, this report also includes segments of Lines 57C and 108, 406 and 407 that are not within HCAs but will be inspected as part of a permit agreement.

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Assessment Plan Revisions

Table 1 lists all Baseline Assessment Plans issued pursuant to the Gas Transmission Pipeline Integrity Management Rule that became effective on December 15, 2003.

Table 1: Assessment Plan Revisions

Rev.	Description of Changes	Date
0	2004 PG&E risk calculation, assessment plan and threats identification.	12/13/2004
1	2005 PG&E risk calculation, assessment plan and threats identification.	12/20/2005
2	2006 PG&E risk calculation. assessment plan and threats identification	2/15/2007
3	2007 PG&E risk calculation, assessment plan and threats identification.	12/21/2007
3A	Revised Revision 3 report to reflect HCA change due the new gas gathering lines in 2007.	10/1/2008
4	2008 PG&E risk calculation in assessment plan and threats	12/30/2008
4A	Revised report 4 to reflect updated high risk analysis, assessment plan and threats.	3/23/2009
5	2009 PG&E risk calculation, assessment plan and threats identification.	1/22/2010
6	2010 PG&E risk calculation, assessment plan and threats identification.	1/6/2011
7	2011 PG&E risk calculation, assessment plan and threats identification.	3/26/2012
7A	Revised revision 7 to include updated threat and assessment plan information.	9/26/2012
8	2012 PG&E risk calculation, assessment plan and threats identification.	4/29/2013

HCA Assessment Plan – Pipelines

Table 2 lists the HCA Assessment Plan for pipelines and contains a listing of master HCAs, corresponding pipeline route, begin and end mile points, footage within the master HCA, HCA identification date, master HCA assessment due dates maximum risk score, the proposed assessment method and the threat determination for each of the potential pipeline threats prescribed by ASME B31.8S. For clarity in scheduling, the manufacturing threat has been broken into manufacturing threats affecting the seam and those affecting the body of the pipe.

The master HCA Due Date field (Column H) is the earliest assessment date of all HCA segments inside a master HCA. The assessment due date is based on criteria from RMP-06 covering scheduling of baseline assessments as well as re-assessment interval information generated from the Continual Evaluation process.

Since the master HCA may contain two or more continuous HCA segments, the earliest assessment due date of all continuous HCA segment within a master HCA is listed. An asterisk is denoted in Column I when a master HCA has more than one due date based upon the underlying segments. In these cases, PG&E will assure that the necessary assessments are completed for each underlying

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segment within each segments individual compliance window. Long term, PG&E is attempting to align the assessment scheduling of the underlying segments to the master HCA due date. While this transition occurs, operational constraints may cause some underlying HCA segments to be assessed after the due date for the master HCA (based upon the earliest assessment due date of the segments in the master HCA), but will be completed in the compliance windows for the individual HCA segment.

Column J of Table 2 provides a list of risk values that provide the maximum identified risk score for all continuous HCA segments within a master HCA. Risk was calculated based upon RMP-06 and the associated risk procedures (RMPs 1-5 & 19). Risk is used for prioritization and scheduling of integrity assessments on covered segments and the application of mitigative measures.

Table 2 also lists the results of the updated potential threat identification for each master HCA using the methodology established in RMP-16. The threat designations have been summarized such that if one of the continuous HCA segments has a potential threat, the master HCA segment is listed as having the threat. When threats are identified to exist (i.e. a determination of Yes, Unstable or a High, Med, Low designation), an integrity assessment method or a preventative or mitigative measure (P&M) shall be identified to address each threat and are denoted in Column K.

Table 3 provides a key to the assessment method field listed in column K of Table 2. The methods were selected per the procedure established in Sections 9.3 and 9.4 of RMP-06. It should be noted that some threats do not have a prescribed integrity assessment method but are addressed through P&M.[3]

Table 3: Assessment Methods

Assessment Method	Abbreviation
Inline Inspection	ILI
External Corrosion Direct Assessment	ECDA
Dry Gas Internal Corrosion Direct Assessment	ICDA
Stress Corrosion Cracking Direct Assessment	SCCDA
Hydrostatic Pressure Testing	Hydro
Direct Examination	DE
Preventative & Mitigative Measures	P&M
Direct Assessment (Inclusive of ECDA, ICDA, SCCDA)	DA

[3] Incorrect Operations, Equipment Failure, Construction Threat and Weather & Outside Force are addressed by P&M measures. Manufacturing (Body of Pipe) and Third Party Damage may be addressed by either P&M Measures or integrity assessments. Time dependent threats and Manufacturing (seam) are addressed through Integrity assessments. See RMP-16.

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In some cases, PG&E may opt to perform a pipeline replacement in lieu of an integrity assessment based upon individual project parameters.

HCA Assessment Plan – Stations

Table 4 lists the assessment Plan for stations. It contains an updated listing of HCA stations, assessment planning information, updated threat identification, and risk scoring. The station threat identification is performed per RMP-16 based on inlet and outlet piping. Stations are not grouped by master HCAs. In these cases, the station assessment due date field denotes the actual compliance due date for the baseline assessment or re-assessment.

Risk is calculated per RMP-01 for the inlet and outlet piping. The highest risk value of inlet and outlet piping per station is listed in Table 4. For station assessments, detail drawings and station operating diagrams indicating the piping to be assessed inside stations are stored in PG&E's Gas Engineering offices in Walnut Creek.

HCA Change Log

Table 5 lists the HCA Change Log and has been included to identify new segments and segments that no longer qualify as HCAs that occurred between the time data was queried from GIS for this report in late September 2012 and December 31, 2012 and provides documentation of the program changes as required in the Management of Change section of RMP-06.

Included in Table 5 is the route, begin and end mile point, HCA segment, footage added or disqualified from the program, the date of the change, the reason for the change and the implication of the change to the program.

HCA reviews are triggered when mapping changes occur and are captured in the audit change table which output is listed in Table 5 for the period between September 2012 when GIS was queried and the end of the year. The audit change log process is prescribed in Section 16.4 of RMP-06. An HCA review can also be generated as part of PG&E's annual system-wide county by county reviews. This process is also described in RMP-06 and RMP-08.

HCA identification was performed per RMP-06 and RMP-08 using Method 2 as per the requirements of 49 CFR Section 192.903. PG&E's procedure for this process is outlined in RMP-06, RMP-08 and in the individual 2012 county HCA identification reports.

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Data Key

Table 6 provides a detailed explanation of each of the columns within the associated tables.

Name	Explanation
Master HCA	Master HCA designation.
ROUTE	Line number of pipeline.
Begin Milepoint	Beginning Mile Point for the first segment of master HCA
End Milepoint	End Mile Point for the last segment of master HCA
Footage	This field denotes the cumulative footage of the master HCA
Date HCA Identified	This date is determined by the earliest born date for all continuous HCA segments within a master HCA.
Master HCA Last Assessment Date	Data that the earliest assessment completion date within of all continuous segments within a master HCA or the inlet and outlet of a station.
Master HCA Assessment Due Date	The date is determined by the earliest assessment due date of all continuous segments within a master HCA or the inlet and outlet of a station per RMP-06.
Multi Dates	An asterisk identifies that there is more than one compliance window in the master HCA.
RISK	The maximum risk calculated for all continuous HCA segments within a master HCA.
Assessment Methods	This field identifies the methods selected to address the threats identified on the master HCA
EC Threat	External Corrosion Threat. Determined per Risk Management Procedure RMP-16 Section 7.1
IC Threat	Internal Corrosion Threat. Determined per Risk Management Procedure, RMP-16 Section 7.2
SCC Threat	Stress Corrosion Cracking Threat. Determined by Risk Management Procedure, RMP-16 Sect. 7.3
Manuf. (Seam) Threat	Seam related Manufacturing Threats. Determined per Risk Management Proc., RMP-16 Sect. 7.4
Manuf. (Body of Pipe) Threat	Manufacturing Threat from body of pipe threats. (Non-Seam Related). Determined per Risk Management Procedure, RMP-16 Section 7.4
Const. Threat	Construction Threat. Determined by Risk Management Procedure, RMP-16, Sec. 7.5
TPD Threat	Third Party Threat. Determined by Risk Management Procedure, RMP-16 Section 7.7
WROF Threat	Weather and Outside Forces Threat. Determined by Risk Management Proc., RMP-16 Sect. 7.9
EQUIP Threat	Equipment Threat. Determined by Risk Management Procedure, RMP-16 Section 7.6
IO Threat	Incorrect Operation Threat. Determined by Risk Management Procedure, RMP-16 Section 7.8
New HCA Segment No.	Segment number assigned to HCA segment in Gas Map 2.0.
Added Footage	The amount of pipeline added to the Transmission Integrity Management program.
Proposed ASMT Year	Proposed year of assessment established during HCA evaluation. The year proposal may be confirmed and/or updated during assessment planning..
Disqualified Segment No.	The segment number in Gas Map 2.0 that was disqualified
Disqualified HCA Footage	The HCA footage that was disqualified from the Transmission Integrity Management program.
Date of Change	The date in which HCA was added or disqualified from the Trans. Integrity Management program.
HCA Segment Due Date	Date in which the HCA Segment due date has been established
Change Detail	Description of the change
Reason for Change	Reason for the change
Implication Analysis	Implication of the change to the Transmission Integrity Management Program.

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Master HCA	ROUTE	Begin Milepoint	End Milepoint	Footage	Date HCA Identified	Master HCA Last Assessment Date	Master HCA Assessment Due Date	Multi Dates	Risk	Assessment Methods	EC THREAT	SCC THREAT	IC THREAT	MANUF. (SEAM) THREAT	MANUF. (BODY OF PIPE) THREAT	CONST. THREAT	TPD THREAT	WROF THREAT	EQUIP THREAT	IO THREAT
2	904	177A	173.707	174.886	6141	12/17/2004	10/20/2008	10/20/2015		21,225	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Unstable	Yes	Yes	Low	Medium
3	1296	7221-15	0.000	1.693	9175	12/17/2004	9/22/2007	12/31/2013	*	20,348	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	No	Low	Medium
4	1784	STUB7912	0.042	0.043	2	12/17/2004	12/13/2010	12/13/2015		20,317	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	No	Low	Medium
5	1386	BD354	0.000	0.000	4	7/22/2010		12/31/2013		19,916	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
6	1387	BD354	0.000	0.000	4	7/22/2010		12/31/2013		19,916	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
7	688	138	38.426	38.580	819	5/14/2008	12/1/2010	12/1/2017		19,644	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
8	1844	X6394	0.050	0.050	19	12/17/2004	1/25/2007	12/31/2013		19,133	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	No	Low	Medium
9	430	108	62.571	63.291	3832	12/17/2004	12/4/2009	12/31/2014	*	18,773	ECDA, ICDA, HYDRO, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	No	Low	Medium
10	560	1202-16	2.422	4.600	11481	12/17/2004	12/1/2010	12/1/2015	*	18,745	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
11	1019	210A	18.726	19.475	7024	12/17/2004	1/8/2007	1/8/2014	*	18,559	ILI, ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
12	772	153	22.215	26.530	23587	12/17/2004	2/16/2010	2/16/2017	*	18,443	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
13	773	153	26.620	27.880	6616	12/17/2004	11/17/2012	11/17/2017		18,443	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
14	1364	BD10681	0.000	0.008	43	6/27/2012		12/31/2015		18,222	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
15	597	123	9.523	9.735	1122	5/23/2011		12/31/2013	*	18,185	ECDA, ICDA, HYDRO, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	No	Low	Medium
16	903	177A	173.273	173.652	2018	12/17/2004	10/20/2008	10/20/2015		18,154	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Unstable	Yes	Yes	Low	Medium
17	911	1813-02	12.173	16.400	22615	12/17/2004	12/1/2006	12/1/2013	*	18,103	ECDA, ICDA, HYDRO, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	Yes	Low	Medium
18	902	177A	173.000	173.195	1027	12/17/2004	10/20/2008	10/20/2015		18,100	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Unstable	Yes	Yes	Low	Medium
19	553	119B-1	0.000	0.030	157	12/17/2004	2/15/2007	2/15/2014	*	18,037	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
20	687	138	38.580	38.659	376	12/17/2004	12/1/2010	12/1/2017		17,967	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
21	900	177A	170.360	170.571	1153	12/17/2004	10/20/2008	10/20/2015	*	17,850	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
22	901	177A	171.133	171.327	1017	12/17/2004	10/20/2008	10/20/2015		17,850	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
23	608	124A	23.861	26.034	12784	12/17/2004	4/2/2010	4/2/2017	*	17,850	ILI, ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
24	924	1815-15	2.045	2.130	457	12/17/2004	6/21/2011	6/21/2018	*	17,684	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
25	1598	DREG5052	0.000	0.000	110	7/22/2010		12/31/2013		17,635	ECDA, ICDA, HYDRO, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	Yes	Low	Medium
26	543	119A	11.755	16.430	25972	12/17/2004	2/15/2007	2/15/2014	*	17,616	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
27	563	1202-16	0.000	0.270	1455	12/17/2004	12/1/2010	12/31/2014	*	17,554	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
28	686	137B	7.051	7.370	1686	12/17/2004	9/24/2006	9/24/2013		17,533	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
29	905	177A	176.299	176.488	997	12/17/2004	10/20/2008	10/20/2015		17,423	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Unstable	Yes	Yes	Low	Medium
30	1383	BD316	0.000	0.006	21	11/16/2010		12/31/2015		17,409	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
31	1384	BD316	0.000	0.006	13	11/16/2010		12/31/2015		17,409	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
32	698	138C	46.332	49.429	16372	12/17/2004	12/1/2010	12/1/2017		17,398	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
33	313	0814-05	0.000	0.281	1463	12/17/2004	11/11/2011	10/2/2019		17,338	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
34	697	138C	44.900	46.183	6765	12/17/2004	12/1/2010	12/1/2017		17,338	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	No	Low	Medium
35	562	1202-16	0.490	1.030	2871	12/17/2004	12/1/2010	12/1/2017		17,326	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
36	1295	7221-15	2.237	2.860	3308	12/17/2004	12/13/2010	12/13/2017	*	17,284	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
37	1027	210B	19.526	20.140	3269	12/17/2004	5/21/2012	5/21/2019		17,105	ILI, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
38	1045	220	21.300	22.172	4782	12/17/2004	1/15/2007	12/31/2013	*	17,075	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
39	696	138C	43.580	44.570	5201	12/17/2004	12/1/2010	12/1/2017		16,827	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
40	1759	STUB6190	0.000	0.000	3	12/17/2004	3/8/2007	12/31/2013		16,721	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	No	Low	Medium
41	423	108	39.177	39.472	1559	12/17/2004	12/4/2009	12/31/2015	*	16,667	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
42	701	1401-01	0.000	0.755	4038	12/17/2004	4/22/2007	12/31/2013	*	16,634	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
43	561	1202-16	1.200	1.675	2524	12/17/2004	12/1/2010	12/1/2017		16,551	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
44	421	108	24.418	34.779	54715	12/17/2004	8/20/2012	8/20/2019		16,530	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
45	472	116	0.000	1.430	7756	12/17/2004	1/25/2007	12/31/2013	*	16,487	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
46	438	109	7.462	14.671	41524	12/17/2004	1/12/2009	12/31/2013	*	16,388	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
47	1770	STUB6318	0.000	0.000	6	1/30/2007	6/13/2012	6/13/2017		16,386	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	No	Low	Medium
48	685	137B	6.355	6.503	782	12/17/2004	9/24/2006	9/24/2013		16,380	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
49	429	108	61.727	62.095	1885	9/23/2010		12/31/2014		16,370	ECDA, ICDA, HYDRO, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	No	Low	Medium
50	1684	GCUST5969	0.066	0.219	796	12/17/2004	8/24/2007	8/24/2014	*	16,359	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	No	Low	Medium
51	1313	7222-01	5.873	6.154	1479	12/17/2004	9/22/2007	12/31/2013	*	16,356	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
52	1635	DRIP7994	0.000	0.001	5	5/2/2006	7/19/2011	7/19/2016		16,289	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
53	925	1815-15	0.000	1.334	7102	12/17/2004	6/21/2011	6/21/2018		16,289	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
54	1301	7222-01	11.676	13.468	9452	12/17/2004	9/22/2007	9/22/2014	*	16,164	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
55	136	0401-01	4.890	5.480	2946	12/17/2004	3/3/2006	3/3/2013		16,144	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
56	309	0813-01	1.029	1.189	906	12/17/2004	11/11/2011	11/11/2016	*	16,074	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
57	787	1607-01	0.032	0.128	523	10/21/2011		12/31/2014	*	16,060	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
58	693	138	43.758	45.136	7335	12/17/2004	12/1/2010	12/1/2017		16,018	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
59	1620	DREG5640	0.000	0.000	10	11/19/2010		12/31/2013	*	16,008	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
60	945	1816-50	0.000	0.265	1403	12/17/2004	4/28/2010	4/28/2017		15,984	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
61	550	119B	6.666	7.309	3437	12/17/2004	7/25/2012	7/25/2019		15,956	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
62	50	021C	52.193	53.122	5081	12/17/2004	12/7/2010	12/7/2017	*	15,943	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
63	1549	DREG3875	0.000	0.059	316	8/28/2012		8/28/2022		15,928	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
64	1496	DF3444	0.000	0.000	8	8/23/2009		12/31/2013		15,914	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
65	1746	STUB6089	0.000	0.000	2	11/20/2010		12/31/2013		15,823	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
66	1294	7221-15	3.060	3.600	2837	12/17/2004	12/13/2010	12/13/2017	*	15,797	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
67	1852	X6429	0.000	0.008	44	12/17/2004	10/8/2009	12/31/2014	*	15,771	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
68	691	138	45.579	45.786	1317	11/2/2010		11/2/2020	*	15,769	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
69	1150	300B	490.427	502.640	65613	12/17/2004	5/4/2006	5/4/2013	*	15,758	ILI, ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
70	769	153	0.000	14.183	75899	12/17/2004	2/15/2007	7/20/2014	*	15,745	ILI, ECDA, ICDA, HYDRO, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	Yes	Low	Medium
71	976	187	46.580	46.783	1075	12/17/2004	12/4/2006	12/4/2013	*	15,664	HYDRO, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
72	729	150	17.510	17.896	2216	12/17/2004	1/20/2007	1/20/2014		15,635	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
73	777	1601-09	0.000	0.471	2501	12/17/2004	8/13/2007	12/31/2013		15,584	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
74	137	0401-01	1.504	3.254	9228	12/17/2004	3/3/2006	3/3/2013	*	15,581	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
75	1046	220	22.172	22.582	2947	12/17/2004	1/15/2007	1/15/2014	*	15,578	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
76	690	138	43.117	43.580	2492	12/17/2004	12/1/2010	12/1/2017		15,575	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
77	984	1881-01	0.006	0.123	616	12/17/2004	12/1/2006	12/1/2013	*	15,553	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
78	980	187	56.410	56.541	690	8/23/2009		8/23/2019		15,516	HYDRO, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
79	1885	X7588	0.000	0.000	4	8/28/2009		12/31/2013		15,495	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
80	871	173	7.304	8.073	6077	12/17/2004	3/8/2007	3/8/2014		15,461	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	No	No	Yes	No	Low	Medium
81	1168	301B	13.477	13.691	1151	2/21/2012		2/21/2022		15,451	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
82	684	137B	4.420	4.623	1328	12/17/2004	9/24/2006	9/24/2013		15,387	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Master HCA	ROUTE	Begin Milepoint	End Milepoint	Footage	Date HCA Identified	Master HCA Last Assessment Date	Master HCA Assessment Due Date	Multi Dates	Risk	Assessment Methods	EC THREAT	SCC THREAT	IC THREAT	MANUF. (SEAM) THREAT	MANUF. (BODY OF PIPE) THREAT	CONST. THREAT	TPD THREAT	WROF THREAT	EQUIP THREAT	IO THREAT
83	549	119B	5.812	6.474	3477	12/17/2004	7/25/2012	7/25/2019		15,375	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
84	1867	X6511	0.000	2.291	1856	12/17/2004	9/20/2007	9/20/2014	*	15,310	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
85	727	148	17.560	17.630	376	12/17/2004	12/13/2010	12/13/2017	*	15,301	ECDA, ICDA, P&M	Yes	No	Yes	No	Stable	Stable	Yes	No	Low	Medium
86	1837	X6342	16.660	16.660	10	12/17/2004	12/7/2010	12/7/2015		15,295	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
87	931	1816-01	9.364	11.378	10836	12/17/2004	11/8/2006	11/8/2013	*	15,280	ECDA, ICDA, HYDRO, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	Yes	Low	Medium
88	346	101	12.835	27.740	80949	12/17/2004	11/3/2011	11/3/2018		15,254	ILI, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Low
89	1381	BD31	10.460	10.460	5	6/25/2010		10/11/2017		15,241	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
90	1382	BD31	10.460	10.460	15	6/25/2010		10/11/2017		15,241	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
91	49	021C	49.120	52.087	17839	12/17/2004	12/7/2010	12/7/2017	*	15,236	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
92	862	173	0.127	0.851	3832	12/17/2004	3/8/2007	3/8/2014	*	15,232	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
93	988	191	0.737	9.894	49453	12/17/2004	6/5/2006	6/5/2013	*	15,186	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
94	1316	7223-01	7.586	7.728	748	10/28/2010		8/6/2019		15,158	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
95	606	124A	20.147	21.372	6689	12/17/2004	4/2/2010	4/2/2017	*	15,145	ILI, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
96	1548	DREG3873	0.000	0.006	29	12/17/2004	3/3/2006	12/31/2013	*	15,145	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
97	1835	X6338	16.660	16.660	12	12/17/2004	12/7/2010	12/31/2014	*	15,139	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
98	1836	X6341	16.090	16.090	2	7/30/2012		12/31/2014		15,139	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
99	1020	210A	13.973	16.509	9981	12/17/2004	6/10/2011	6/10/2018	*	15,124	ILI, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
100	287	0627-01	0.000	0.023	128	12/17/2004	1/15/2007	12/31/2013	*	15,116	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
101	1317	7223-01	6.826	7.448	3285	12/17/2004	9/22/2007	8/6/2019		15,114	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
102	726	148	16.496	17.347	4499	12/17/2004	4/27/2012	4/27/2019		15,109	ECDA, ICDA, P&M	Yes	No	Yes	No	Stable	Stable	Yes	No	Low	Medium
103	1304	7222-01	6.876	7.077	1077	12/17/2004	9/22/2007	12/31/2013	*	15,044	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
104	996	191-1	35.186	35.830	3413	12/17/2004	6/5/2006	6/5/2013	*	15,043	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
105	985	189	1.000	1.720	302	7/19/2012		7/19/2022	*	15,001	ECDA, P&M	Yes	No	No	Stable	Stable	Unstable	Yes	Yes	Low	Medium
106	682	137B	2.001	2.162	849	12/17/2004	9/24/2006	9/24/2013		14,981	ECDA, P&M	Yes	No	No	Stable	Stable	Unstable	Yes	Yes	Low	Medium
107	11	0126-01	0.000	1.840	9696	12/17/2004	11/4/2012	11/4/2017	*	14,964	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
108	774	153-2	0.000	0.060	322	12/17/2004	11/11/2012	11/11/2019		14,955	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
109	856	172A	48.965	49.759	4042	12/17/2004	4/29/2012	4/29/2017	*	14,938	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
110	935	1816-01	13.123	14.238	5630	12/17/2004	11/8/2006	11/8/2013	*	14,908	ECDA, ICDA, HYDRO, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	Yes	Low	Medium
111	1376	BD27	10.840	10.840	40	6/25/2010	10/11/2012	10/11/2019		14,906	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
112	788	1607-01	0.574	0.709	723	10/21/2011		12/31/2015	*	14,901	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
113	141	0402-01	0.000	0.659	3474	12/17/2004	3/3/2006	12/31/2013	*	14,899	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
114	817	1614-08	0.760	0.951	994	10/21/2011		12/31/2015		14,858	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
115	76	021E	73.309	73.860	2961	12/17/2004	12/11/2007	12/11/2014		14,847	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
116	1680	GCUST5954	0.000	0.000	1	6/12/2009		12/31/2013		14,831	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
117	786	1607-01	1.349	1.651	1583	12/17/2004	8/24/2007	12/31/2013	*	14,830	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
118	1347	7226-02	1.843	2.247	2136	9/20/2008		9/20/2018		14,822	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
119	1749	STUB6099	0.000	0.000	5	12/17/2004	8/6/2007	8/6/2014		14,818	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	No	Low	Medium
120	1414	BD8547	16.660	16.660	31	6/25/2010		12/17/2019		14,798	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
121	1517	DF8209	0.000	0.004	21	4/13/2006	10/8/2009	10/8/2016		14,775	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
122	618	124B	22.764	23.330	3888	12/17/2004	3/10/2007	3/10/2014		14,758	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
123	867	173	4.083	4.227	780	5/19/2011		5/19/2021		14,736	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
124	640	131	35.690	36.229	3299	12/17/2004	8/15/2011	8/15/2018		14,732	ILI, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
125	730	150	18.080	18.090	47	12/17/2004	1/20/2007	12/31/2013	*	14,683	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
126	1404	BD74	12.060	12.060	42	11/22/2010	11/3/2011	11/3/2018		14,679	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
127	627	1301-01	4.150	4.630	2540	12/17/2004	3/3/2006	3/3/2013		14,663	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
128	1797	STUB8500	0.000	0.000	1	12/17/2004	12/7/2010	12/7/2015		14,633	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
129	1182	302W	4.460	5.014	2925	12/17/2004	8/5/2011	8/5/2016		14,630	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
130	1891	X8691	0.002	0.000	5	1/3/2006	4/7/2010	4/7/2015		14,615	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	No	No	Yes	No	Low	Medium
131	1890	X8691	0.000	0.002	10	12/17/2004	4/7/2010	4/7/2015		14,614	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	No	No	Yes	No	Low	Medium
132	875	173	12.390	13.546	5748	12/17/2004	3/8/2007	3/8/2014		14,592	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
133	140	0402-01	0.828	2.356	7920	12/17/2004	3/3/2006	3/3/2013	*	14,583	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
134	1310	7222-01	2.528	2.723	1106	9/20/2008		12/31/2013	*	14,572	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
135	941	1816-15	0.730	0.978	1308	12/17/2004	11/8/2006	12/31/2014		14,568	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
136	149	0405-01	8.710	8.958	1318	12/17/2004	10/31/2006	10/23/2013	*	14,563	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
137	440	109	16.329	16.796	2433	12/17/2004	1/12/2009	1/12/2014		14,560	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
138	327	0833-01	6.060	6.145	436	4/13/2006	12/2/2009	12/2/2016		14,559	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
139	607	124A	23.142	23.557	2244	12/17/2004	4/2/2010	4/2/2017	*	14,556	ILI, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
140	1886	X7589	0.000	0.000	4	8/28/2009		12/31/2013		14,546	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
141	1879	X6896	0.000	0.007	38	12/17/2004	3/3/2006	12/31/2013		14,539	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
142	435	109	3.439	6.967	18987	12/17/2004	1/12/2009	12/31/2013	*	14,535	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
143	1552	DREG4014	0.000	0.072	378	12/17/2004	3/16/2007	12/31/2013	*	14,534	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
144	994	191-1	33.834	34.032	1313	12/17/2004	6/5/2006	6/5/2013		14,523	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
145	1758	STUB6186	0.000	0.002	14	8/9/2012		12/31/2014		14,523	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
146	699	138C	49.671	50.020	1846	12/17/2004	12/1/2010	12/1/2017		14,515	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
147	540	119A	0.000	1.614	8523	12/17/2004	2/1/2007	2/1/2014	*	14,504	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
148	1546	DREG3831	0.000	0.009	47	12/17/2004	3/3/2006	12/31/2013		14,502	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
149	1460	DF3226	19.930	19.930	5	12/17/2004	3/3/2006	12/31/2013		14,489	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
150	1397	BD626	0.000	0.000	3	10/19/2011		12/31/2014		14,463	ECDA, HYDRO, P&M	Yes	No	No	Unstable	No	No	Yes	Yes	Low	Medium
151	1115	300A	489.280	502.240	70587	12/17/2004	2/15/2007	2/15/2014	*	14,451	ILI, ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
152	1632	DRIP7968	0.000	0.002	10	4/13/2006	11/11/2011	11/11/2018		14,451	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
153	1212	400	297.470	298.840	7247	12/17/2004	11/13/2010	11/13/2015	*	14,428	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
154	784	1607-01	0.241	0.506	1391	12/17/2004	8/24/2007	8/24/2014		14,424	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
155	932	1816-01	14.361	14.820	3045	12/17/2004	11/8/2006	11/8/2013	*	14,423	ECDA, ICDA, HYDRO, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	Yes	Low	Medium
156	1585	DREG4718	0.000	0.040	243	11/23/2008	9/2/2010	12/31/2015	*	14,422	CDA, ICDA, SCCDA, HYDRO, P&	Yes	Yes	Yes	Unstable	Stable	Stable	Yes	Yes	Low	Medium
157	637	131	46.870	55.115	44759	12/17/2004	2/15/2007	12/31/2013	*	14,420	ILI, ECDA, ICDA, HYDRO, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	Yes	Low	Medium
158	1321	7223-01	0.143	1.406	6662	12/17/2004	9/22/2007	6/25/2019	*	14,416	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
159	602	124A	9.771	10.980	6401	12/17/2004	4/2/2010	4/2/2017	*	14,408	ILI, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
160	995	191-1	34.832	35.000	887	12/17/2004	6/5/2006	6/5/2013		14,405	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
161	1760	STUB6203	0.000	0.000	7	12/17/2004	4/28/2010	4/28/2017		14,391	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
162	1042	215	18.725	19.457	3845	12/17/2004	11/4/2009	11/4/2016		14,384	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
163	424	108	42.333	42.720	1985	12/17/2004	8/24/2007	12/31/2013	*	14,379	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Master HCA	ROUTE	Begin Milepoint	End Milepoint	Footage	Date HCA Identified	Master HCA Last Assessment Date	Master HCA Assessment Due Date	Multi Dates	Risk	Assessment Methods	EC THREAT	SCC THREAT	IC THREAT	MANUF. (SEAM) THREAT	MANUF. (BODY OF PIPE) THREAT	CONST. THREAT	TPD THREAT	WROF THREAT	EQUIP THREAT	IO THREAT
164	1258	402	15.938	17.373	7726	12/17/2004	11/12/2012	11/12/2019		14,347	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
165	9	0107-01	0.017	0.240	1179	12/17/2004	11/4/2012	11/4/2019		14,342	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
166	147	0405-01	6.147	7.133	5212	12/17/2004	10/31/2006	10/23/2013		14,317	ECDA, P&M	Yes	No	No	Stable	Stable	No	Yes	Yes	Low	Medium
167	195	057B	13.238	16.680	18054	12/17/2004	9/29/2008	9/29/2013	*	14,316	ILI, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
168	674	132	45.790	51.530	32325	12/17/2004	10/8/2009	12/31/2013	*	14,315	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
169	710	142N	12.290	13.865	8397	12/17/2004	5/3/2007	5/3/2014		14,313	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
170	844	162A	5.848	7.226	7491	12/17/2004	8/13/2007	12/31/2013	*	14,297	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
171	303	0804-01	0.000	0.210	1156	11/23/2010	2/23/2012	2/23/2017	*	14,295	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	No	No	Yes	Yes	Low	Medium
172	311	0813-02	0.000	0.344	1832	12/17/2004	11/11/2011	11/11/2018		14,287	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
173	442	109	17.010	19.000	12139	12/17/2004	1/12/2009	1/12/2014	*	14,258	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
174	465	114	13.072	16.330	17386	12/17/2004	6/13/2007	12/31/2013	*	14,254	ILI, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
175	403	105N-5	36.390	36.470	537	7/21/2008	7/27/2010	12/31/2015	*	14,248	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
176	1519	DF8784	0.000	0.022	114	11/2/2010		12/31/2013		14,235	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
177	854	172A	59.556	62.167	14042	12/17/2004	4/29/2012	4/29/2017	*	14,227	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
178	1766	STUB6296	0.000	0.001	5	9/20/2008		12/31/2013		14,216	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
179	1767	STUB6297	0.000	0.001	8	9/20/2008		12/31/2013		14,216	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
180	1298	7221-16	0.137	0.300	853	8/8/2012		8/8/2022		14,206	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	No	No	Yes	No	Low	Medium
181	940	1816-15	0.000	0.540	2831	12/17/2004	11/8/2006	12/31/2014		14,206	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
182	683	137B	3.390	3.608	1158	12/17/2004	9/24/2006	9/24/2013		14,199	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
183	1026	210B	18.473	19.436	5100	12/17/2004	5/21/2012	5/21/2019		14,188	ILI, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
184	936	1816-01	16.551	16.814	1418	12/17/2004	11/8/2006	11/8/2013	*	14,186	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
185	1085	300A	181.446	182.336	4835	12/17/2004	11/11/2011	12/31/2014	*	14,172	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	No	Low	Medium
186	168	050A	11.107	11.440	1795	12/17/2004	9/23/2008	12/31/2014	*	14,171	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
187	326	0833-01	5.537	5.897	1896	12/17/2004	5/3/2007	5/3/2014	*	14,162	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
188	630	1302-01	-0.012	0.030	231	12/17/2004	12/7/2010	12/31/2014	*	14,137	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
189	631	1302-02	-0.011	0.002	68	6/21/2010	6/5/2012	12/31/2014	*	14,137	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
190	863	173	1.449	2.097	3428	12/19/2008		12/19/2018		14,110	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
191	983	1881-01	1.312	2.660	7113	12/17/2004	12/1/2006	12/1/2013		14,110	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
192	410	108	6.854	7.235	2005	12/17/2004	8/20/2012	8/20/2019		14,106	ILI, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
193	944	1816-50	0.562	0.650	463	12/17/2004	4/28/2010	4/28/2017		14,082	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
194	1028	210B	24.837	25.138	1584	12/17/2004	5/21/2012	10/11/2019		14,078	ILI, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
195	1845	X6395	0.000	9.600	137	12/17/2004	1/25/2007	1/25/2014	*	14,070	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	No	Low	Medium
196	977	187	50.293	51.153	4418	12/17/2004	12/4/2006	12/4/2013		14,062	HYDRO, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
197	1741	STUB6078	0.000	0.000	3	12/17/2004	11/4/2012	11/4/2019		14,061	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
198	689	138	38.928	39.151	1177	12/4/2008	12/1/2010	12/1/2017		14,054	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
199	965	186	9.573	9.657	440	11/10/2010		11/10/2020		14,050	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
200	1312	7222-01	6.224	6.303	415	12/17/2004	9/22/2007	12/31/2013		14,043	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
201	167	050A	10.911	11.030	718	12/17/2004	9/23/2008	9/23/2015	*	14,042	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
202	1875	X6563	0.000	0.005	25	12/17/2004	9/22/2007	12/31/2013		14,040	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	No	Low	Medium
203	1374	BD266	57.450	57.450	9	11/22/2010		10/24/2019		14,036	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
204	1375	BD267	0.000	502.120	37	11/22/2010		12/31/2014	*	14,036	ECDA, ICDA, HYDRO, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	Yes	Low	Medium
205	1755	STUB6173	0.000	0.000	8	12/17/2004	3/8/2007	12/31/2013		14,011	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	No	Low	Medium
206	650	132	7.716	15.820	43264	12/17/2004	10/8/2009	12/31/2014	*	14,000	ILI, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
207	644	1310-01	1.272	1.290	91	12/17/2004	10/25/2006	10/25/2013		13,987	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
208	975	187	45.196	45.368	909	12/17/2004	12/4/2006	12/4/2013		13,971	HYDRO, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
209	1580	DREG4454	0.000	0.028	148	12/17/2004	8/6/2007	8/6/2014		13,969	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
210	1791	STUB8269	0.000	0.000	1	3/2/2006		3/2/2016		13,961	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
211	567	1204-01	0.208	0.271	329	6/7/2012		6/7/2022		13,961	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	No	Low	Medium
212	24	0215-01	0.000	0.450	2204	12/17/2004	11/3/2011	11/3/2018		13,954	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Low
213	1043	215	19.971	20.080	575	12/17/2004	11/4/2009	11/4/2016		13,954	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
214	899	177A	85.573	85.950	1987	12/17/2004	10/20/2008	10/20/2015		13,931	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
215	692	138	45.864	46.100	1396	12/17/2004	12/1/2010	12/1/2017		13,922	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
216	1329	7224-09	0.509	0.695	977	9/20/2008		12/31/2013		13,917	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
217	1330	7224-09	0.914	1.012	513	9/20/2008		12/31/2013		13,917	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
218	939	1816-02	0.000	0.124	639	12/17/2004	11/8/2006	12/31/2014		13,913	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
219	1754	STUB6158	0.000	0.001	5	12/17/2004	5/3/2007	12/31/2013		13,903	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Low
220	541	119A	1.794	2.164	1951	3/4/2010		8/29/2019		13,902	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
221	1443	DCUST2823	0.000	0.520	2739	12/17/2004	9/22/2007	9/22/2014	*	13,899	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
222	623	1301-01	0.000	0.390	2180	12/17/2004	3/3/2006	3/3/2013	*	13,884	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
223	1033	210B	11.431	13.715	13738	12/17/2004	5/21/2012	5/21/2019		13,881	ILI, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
224	1636	DRIP7995	0.000	0.010	51	5/2/2006	11/13/2010	12/31/2014	*	13,865	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
225	1637	DRIP7996	0.000	0.010	51	5/2/2006	11/13/2010	12/31/2014	*	13,865	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
226	1388	BD400	0.000	0.000	29	8/23/2009	2/24/2012	2/24/2019		13,864	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
227	1291	7221-10	14.371	15.314	5004	12/17/2004	9/22/2007	12/31/2014	*	13,855	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
228	146	0405-01	4.391	5.902	8053	12/17/2004	10/31/2006	10/23/2013	*	13,840	ECDA, P&M	Yes	No	No	Stable	Stable	No	Yes	Yes	Low	Medium
229	770	153	14.321	19.957	29799	12/17/2004	7/20/2007	7/9/2018	*	13,836	ILI, ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
230	1570	DREG4281	0.044	0.080	198	10/11/2011		12/31/2014	*	13,825	ECDA, ICDA, HYDRO, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	Yes	Low	Medium
231	520	118A-2	0.000	0.231	1220	4/6/2009		4/6/2019	*	13,798	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
232	619	126A	5.020	5.434	2151	12/17/2004	10/25/2006	10/25/2013		13,794	ECDA, P&M	Yes	No	No	Stable	Stable	Unstable	Yes	Yes	Low	Medium
233	1311	7222-01	2.908	3.020	636	12/17/2004	9/22/2007	12/31/2013		13,786	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
234	704	1406-01	0.000	0.010	53	12/17/2004	4/22/2007	12/31/2013	*	13,784	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
235	1302	7222-01	11.217	11.473	1349	12/17/2004	9/22/2007	12/31/2013	*	13,779	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
236	719	142S	9.974	11.480	8007	12/17/2004	5/3/2007	5/3/2014		13,775	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
237	605	124A	21.431	21.790	1895	12/17/2004	4/2/2010	4/2/2017		13,759	ILI, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
238	603	124A	16.764	17.118	1874	12/17/2004	4/2/2010	4/2/2017		13,753	ILI, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
239	855	172A	58.638	59.484	4469	12/17/2004	4/29/2012	4/29/2017		13,739	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
240	979	187	52.830	52.954	655	12/17/2004	12/4/2006	12/4/2013		13,734	HYDRO, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
241	233	0609-02	0.000	0.652	3439	12/17/2004	8/24/2007	8/24/2014	*	13,726	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
242	335	100	138.430	150.141	62811	12/17/2004	7/8/2010	7/8/2017	*	13,724	ILI, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
243	1419	BD9375	8.470	8.470	7	7/3/2012		12/31/2014		13,712	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
244	1420	BD9376	8.470	8.470	7	7/3/2012		12/31/2014		13,712	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Master HCA	ROUTE	Begin Milepoint	End Milepoint	Footage	Date HCA Identified	Master HCA Last Assessment Date	Master HCA Assessment Due Date	Multi Dates	Risk	Assessment Methods	EC THREAT	SCC THREAT	IC THREAT	MANUF. (SEAM) THREAT	MANUF. (BODY OF PIPE) THREAT	CONST. THREAT	TPD THREAT	WROF THREAT	EQUIP THREAT	IO THREAT
245	389	105A	46.788	52.040	28273	12/17/2004	7/27/2010	7/27/2017	*	13,711	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
246	755	1519-01	1.649	1.825	936	12/17/2004	3/8/2007	3/8/2014	*	13,709	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
247	1440	DCUST2316	0.000	0.140	720	12/17/2004	1/15/2007	12/31/2013		13,693	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
248	400	105N	23.810	36.340	66878.08268	12/17/2004	11/4/2012	11/4/2019		13,691	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
249	1750	STUB6107	0.000	0.000	5	12/17/2004	12/1/2011	12/1/2016		13,690	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	No	Low	Medium
250	1309	7222-01	0.000	0.085	451	12/17/2004	9/22/2007	9/22/2014		13,688	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
251	1435	DCUST1438	0.000	0.090	456	12/17/2004	4/22/2007	4/22/2014		13,683	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
252	898	177A	88.023	88.940	4843	12/17/2004	10/20/2008	10/20/2015	*	13,677	ILI, ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
253	1257	402	14.714	15.481	4174	12/17/2004	11/12/2012	11/12/2019		13,677	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
254	1421	BD9444	5.430	5.430	31	11/18/2010		12/31/2014		13,672	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
255	1422	BD9445	5.430	5.430	20	11/18/2010		12/31/2014		13,672	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
256	1823	STUB9952	0.000	0.000	4	12/17/2004	9/22/2007	9/22/2014		13,668	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
257	1486	DF3421	0.000	0.002	8	12/17/2004	12/1/2006	12/31/2013		13,652	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
258	916	1815-02	15.845	15.970	697	8/19/2010		8/19/2020		13,641	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
259	1756	STUB6181	0.000	0.040	221	12/17/2004	12/4/2009	12/4/2014		13,637	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	No	Low	Medium
260	633	1305-01	0.000	0.002	9	6/27/2012		12/31/2015		13,625	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
261	973	187	41.691	41.785	496	12/17/2004	12/4/2006	12/4/2013		13,620	HYDRO, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
262	1595	DREG4919	0.000	0.125	651	12/17/2004	8/24/2007	8/24/2014		13,617	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
263	1365	BD107	0.000	0.000	4	3/27/2012		12/31/2014		13,604	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
264	1630	DRIP5664	0.000	0.001	5	12/17/2004	12/1/2011	12/1/2016		13,584	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	No	Low	Medium
265	818	1614-08	0.560	0.636	408	12/17/2004	8/24/2007	8/7/2019		13,555	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
266	439	109	16.012	16.191	934	12/17/2004	1/12/2009	1/12/2014		13,554	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
267	1765	STUB6287	0.000	0.000	10	9/20/2008	12/13/2010	12/13/2015		13,553	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	No	Low	Medium
268	25	0215-01	0.583	0.754	906	12/17/2004	11/3/2011	11/3/2018		13,537	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Low
269	776	1601-09	0.782	0.860	412	11/10/2010		12/31/2013		13,528	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
270	1303	7222-01	10.940	11.078	722	9/20/2008		12/31/2013		13,520	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
271	61	021E	56.475	58.204	9329	12/17/2004	3/11/2011	3/11/2018	*	13,518	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
272	1599	DREG5090	0.000	0.028	150	12/17/2004	12/1/2006	12/1/2013		13,513	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
273	836	1615-07	0.000	0.250	1356	12/17/2004	12/4/2009	12/4/2014	*	13,508	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	No	Low	Medium
274	1779	STUB7586	0.021	0.023	10	12/17/2004	10/31/2006	12/31/2013		13,481	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
275	978	187	51.839	52.007	960	12/17/2004	12/4/2006	12/4/2013		13,466	HYDRO, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
276	617	124B	22.190	22.565	1967	6/6/2011		6/6/2021		13,461	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
277	1399	BD627	0.000	0.000	3	10/19/2011		12/31/2014		13,460	ECDA, HYDRO, P&M	Yes	No	No	Unstable	No	No	Yes	Yes	Low	Medium
278	1398	BD626	0.000	0.000	3	10/19/2011		12/31/2014		13,460	ECDA, HYDRO, P&M	Yes	No	No	Unstable	No	No	Yes	Yes	Low	Medium
279	203	0604-01	4.384	5.191	4337	12/17/2004	5/4/2007	5/4/2014	*	13,451	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
280	1714	STUB10953	0.000	0.011	57	12/17/2004	10/1/2007	12/31/2015		13,448	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
281	694	138	46.188	49.193	15870	12/17/2004	12/1/2010	12/1/2017		13,448	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
282	789	1608-01	0.000	1.290	6785	12/17/2004	12/4/2009	12/4/2016		13,443	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
283	1735	STUB11302	0.000	0.002	10	12/17/2004	1/8/2007	1/8/2014		13,441	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
284	929	1816-01	2.596	3.720	5949	12/17/2004	11/8/2006	11/8/2013	*	13,437	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
285	1167	301B	13.765	13.945	1273	12/17/2004	6/21/2011	6/21/2018		13,435	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
286	828	1615-01	8.977	10.883	10049	12/17/2004	12/4/2009	12/4/2016	*	13,430	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
287	334	0837-01	1.230	1.550	1696	12/17/2004	12/2/2009	12/2/2016		13,412	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
288	992	191-1	15.000	16.956	10325	12/17/2004	6/5/2006	6/5/2013	*	13,388	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
289	1673	GCUST5901	0.090	0.110	100	12/17/2004	6/25/2012	6/25/2019		13,386	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
290	1481	DF3378	0.000	0.000	7	12/17/2004	4/22/2007	4/22/2014		13,383	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
291	969	187	41.052	41.080	165	12/23/2008	2/15/2007	2/15/2014		13,383	HYDRO, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
292	552	119B	9.107	10.170	6084	12/17/2004	7/14/2009	7/14/2016	*	13,375	ILI, ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
293	1041	215	18.254	18.533	1479	12/17/2004	11/4/2009	11/4/2016		13,370	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
294	1315	7223-01	8.221	8.992	4097	12/17/2004	9/22/2007	9/22/2014	*	13,369	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
295	1796	STUB8485	0.000	0.002	4	6/21/2006	10/2/2012	10/2/2019		13,368	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
296	1037	210C	19.460	20.362	4751	12/17/2004	1/8/2007	1/8/2014	*	13,347	ILI, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
297	1880	X6916	0.000	0.010	29	12/17/2004	12/4/2009	12/4/2014		13,346	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	No	No	Yes	No	Low	Medium
298	1344	7226-01	5.094	5.425	1766	12/17/2004	9/22/2007	9/22/2014		13,336	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
299	1089	300A	241.760	242.764	5061	12/17/2004	11/11/2011	11/11/2016	*	13,331	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
300	1417	BD9302	77.340	77.340	5	10/4/2010	4/29/2012	4/29/2017		13,326	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	No	Low	Medium
301	1418	BD9302	77.340	77.340	5	10/4/2010	4/29/2012	4/29/2017		13,326	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	No	Low	Medium
302	1255	402	13.880	14.054	929	12/17/2004	11/12/2012	11/12/2019		13,321	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
303	1256	402	14.179	14.489	1678	12/17/2004	11/12/2012	11/12/2019		13,321	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
304	158	0405-16	0.000	0.000	6	11/30/2010		12/17/2019		13,312	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
305	16	0210-01	5.897	6.033	567	12/17/2004	3/23/2009	3/23/2016		13,299	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Low
306	17	0210-01	4.487	4.791	1821	12/17/2004	10/1/2007	10/1/2014	*	13,299	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Low
307	1846	X6397	0.000	0.030	159	5/1/2006	12/1/2011	12/1/2016	*	13,290	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	No	Low	Medium
308	1863	X6466	0.000	0.040	218	12/17/2004	12/16/2010	12/16/2015		13,289	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	No	No	Yes	No	Low	Medium
309	447	109	27.969	28.510	3282	12/17/2004	10/1/2007	10/1/2014	*	13,267	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
310	377	103	0.548	0.920	2108	12/17/2004	9/24/2011	9/24/2018		13,264	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
311	489	118A	11.557	11.852	1605	9/15/2009		9/15/2019		13,260	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
312	1308	7222-01	1.926	2.135	1107	12/17/2004	9/22/2007	12/31/2013		13,254	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
313	1307	7222-01	1.028	1.628	3137	12/17/2004	9/22/2007	12/31/2013	*	13,240	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
314	1569	DREG4260	0.433	0.674	1255	12/17/2004	9/24/2011	9/24/2018		13,233	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
315	325	0833-01	5.045	5.520	2519	12/17/2004	5/3/2007	5/3/2014	*	13,208	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
316	144	0405-01	2.198	3.943	9189	12/17/2004	10/31/2006	10/23/2013	*	13,199	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
317	921	1815-02	18.973	19.490	2728	12/17/2004	12/1/2006	12/1/2013		13,193	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
318	1545	DREG3825	0.000	0.024	123	12/17/2004	12/7/2010	12/7/2017		13,186	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
319	494	118A	21.000	21.173	890	12/17/2004	8/6/2007	8/6/2014	*	13,182	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
320	600	123	12.790	13.586	4242	12/17/2004	7/26/2008	7/26/2015	*	13,179	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
321	838	1617-01	0.612	0.983	1961	12/17/2004	8/13/2007	12/31/2013	*	13,178	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
322	257	0617-06	14.752	16.502	9242	12/17/2004	4/7/2010	4/7/2017	*	13,174	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
323	317	0817-01	0.477	0.962	2599	12/17/2004	9/20/2007	9/20/2014	*	13,169	ECDA, ICDA, HYDRO, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	Yes	Low	Medium
324	487	118A	8.832	9.429	3161	12/9/2008	12/1/2011	12/1/2018		13,162	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
325	964	186	9.339	9.460	649	12/17/2004	8/6/2011	8/6/2018		13,146	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Master HCA	ROUTE	Begin Milepoint	End Milepoint	Footage	Date HCA Identified	Master HCA Last Assessment Date	Master HCA Assessment Due Date	Multi Dates	Risk	Assessment Methods	EC THREAT	SCC THREAT	IC THREAT	MANUF. (SEAM) THREAT	MANUF. (BODY OF PIPE) THREAT	CONST. THREAT	TPD THREAT	WROF THREAT	EQUIP THREAT	IO THREAT
326	895	177A	45.000	45.324	1711	11/2/2010		11/2/2020		13,135	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
327	1738	STUB6061	0.000	0.002	12	4/13/2006	9/20/2007	12/31/2013		13,132	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
328	628	1302-01	1.405	1.770	1927	12/17/2004	3/3/2006	3/3/2013	*	13,122	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
329	1551	DREG3907	0.000	0.024	234	12/17/2004	10/31/2006	10/31/2013	*	13,112	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
330	1040	215	17.123	17.340	1144	12/17/2004	11/4/2009	11/4/2016		13,101	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
331	645	132	1.022	7.447	35688	12/17/2004	10/8/2009	10/8/2014	*	13,082	ILI, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
332	1870	X6537	0.000	0.000	8	10/19/2011		6/21/2018		13,077	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
333	1672	GCUST5900	0.000	0.990	4971	5/20/2011		12/31/2013	*	13,067	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
334	1053	220	31.124	31.750	3248	12/17/2004	1/15/2007	1/15/2014		13,044	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
335	1499	DF3475	0.000	0.000	24	12/17/2004	2/2/2011	2/2/2018		13,034	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
336	971	187	41.241	41.342	535	5/2/2008		5/2/2018		13,015	HYDRO, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
337	970	187	41.080	41.180	501	12/23/2008	2/15/2007	2/15/2014		13,015	HYDRO, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
338	864	173	1.010	1.105	500	12/17/2004	3/8/2007	3/8/2014		13,014	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
339	488	118A	10.966	11.423	2354	12/17/2004	8/6/2007	8/6/2014	*	13,014	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
340	1771	STUB6319	0.000	0.000	20	12/17/2004	8/24/2007	8/24/2014		13,014	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
341	19	0210-01	3.668	3.839	1325	12/17/2004	3/23/2009	3/23/2016		13,007	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Low
342	1780	STUB7761	0.000	0.000	1	12/17/2004	5/4/2007	5/4/2014		12,997	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
343	723	148	14.943	15.147	1068	12/17/2004	4/27/2012	4/27/2019		12,996	ECDA, ICDA, P&M	Yes	No	Yes	No	Stable	Stable	Yes	No	Low	Medium
344	724	148	15.341	15.449	568	12/17/2004	4/27/2012	4/27/2019		12,996	ECDA, ICDA, P&M	Yes	No	Yes	No	Stable	Stable	Yes	No	Low	Medium
345	725	148	16.285	16.396	566	12/17/2004	4/27/2012	4/27/2019		12,996	ECDA, ICDA, P&M	Yes	No	Yes	No	Stable	Stable	Yes	No	Low	Medium
346	1359	BD10294	0.000	0.001	5	9/14/2010	5/23/2012	5/23/2019		12,988	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
347	775	153-6	0.000	0.064	338	12/17/2004	10/2/2012	11/17/2017	*	12,980	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
348	1016	210A	19.644	20.089	2814	12/17/2004	1/8/2007	12/31/2013	*	12,974	ILI, ECDA, ICDA, HYDRO, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	Yes	Low	Medium
349	866	173	3.360	3.447	473	7/29/2010		7/29/2020		12,967	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
350	604	124A	18.079	18.255	928	12/17/2004	4/2/2010	4/2/2017		12,964	ILI, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
351	1305	7222-01	0.337	0.903	3413	12/17/2004	9/22/2007	9/22/2014	*	12,955	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
352	1666	GCUST5842	0.000	0.087	443	12/17/2004	8/24/2007	12/31/2013	*	12,949	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
353	1029	210B	25.750	25.980	1218	10/4/2007	5/21/2012	5/21/2019	*	12,919	ILI, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
354	102	021F	14.385	15.303	4747	12/17/2004	3/3/2006	3/3/2013	*	12,908	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
355	991	191-1	19.017	20.460	7627	12/17/2004	6/5/2006	6/5/2013		12,908	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
356	356	101	42.218	44.610	12880	12/17/2004	2/15/2007	2/15/2014	*	12,907	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
357	152	0405-01	11.649	11.786	722	9/21/2010	10/11/2012	10/11/2019		12,907	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
358	826	1615-01	14.809	15.974	6159	12/17/2004	12/4/2009	12/4/2016		12,907	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
359	1261	402	19.753	19.933	923	12/17/2004	11/12/2012	11/12/2019		12,901	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
360	72	021E	67.855	68.413	3134	12/17/2004	12/11/2007	12/11/2014		12,899	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
361	234	0609-03	0.000	0.430	2242	12/17/2004	12/4/2009	12/4/2016	*	12,896	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
362	282	0619-05	1.624	1.925	1754	10/5/2010	4/29/2012	4/29/2019		12,890	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
363	1180	301G	1.614	2.340	3837	12/17/2004	6/21/2011	6/21/2018		12,888	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
364	373	103	19.349	19.528	1266	12/17/2004	9/24/2011	12/31/2015	*	12,883	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
365	865	173	2.313	3.126	4308	12/17/2004	3/8/2007	3/8/2014	*	12,876	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
366	1547	DREG3870	0.000	0.013	70	12/17/2004	3/3/2006	12/31/2013		12,874	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
367	557	119C	6.430	6.690	1372	12/17/2004	2/15/2007	2/15/2014	*	12,851	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
368	1225	400-3	297.494	297.878	2029	12/17/2004	11/13/2010	11/13/2017	*	12,845	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
369	987	191	0.111	0.676	3019	12/17/2004	6/5/2006	6/5/2013	*	12,840	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
370	1412	BD81	0.000	0.000	120	11/14/2010	11/3/2011	11/3/2018		12,837	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
371	466	114	12.067	12.729	3560	12/17/2004	6/13/2007	6/13/2014	*	12,827	ILI, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
372	437	109	3.113	3.318	1205	11/23/2010		11/23/2020		12,822	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
373	1263	402	21.217	25.000	19995	12/17/2004	11/12/2012	11/12/2019		12,815	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
374	93	021E	121.444	122.317	4283	12/17/2004	3/3/2006	3/3/2013		12,807	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
375	457	109	45.160	52.710	42130	12/17/2004	3/23/2009	12/31/2013	*	12,801	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
376	58	021E	53.124	54.249	6090	12/17/2004	3/11/2011	3/11/2018	*	12,796	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
377	1293	7221-10	8.354	10.429	10923	12/17/2004	9/22/2009	9/22/2016	*	12,792	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
378	1059	2405-01	0.613	0.620	39	10/12/2011		10/12/2021		12,792	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
379	84	021E	109.386	110.188	3802	12/17/2004	1/14/2012	1/14/2019		12,777	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
380	310	0813-01	0.000	0.414	2187	12/17/2004	2/2/2011	11/11/2016	*	12,769	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
381	974	187	45.000	45.112	592	12/17/2004	12/4/2006	12/4/2013		12,767	HYDRO, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
382	1800	STUB8628	11.348	11.349	3	12/17/2004	12/1/2011	12/31/2015		12,766	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
383	83	021E	97.373	99.468	4964	12/17/2004	1/14/2012	1/14/2019		12,759	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
384	261	0617-06	13.364	14.547	6249	12/17/2004	4/7/2010	4/7/2017		12,747	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
385	166	050A	7.502	7.619	620	9/22/2010		12/31/2015	*	12,742	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
386	934	1816-01	15.169	16.333	6368	12/17/2004	11/8/2006	11/8/2013	*	12,728	ECDA, ICDA, HYDRO, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	Yes	Low	Medium
387	1318	7223-01	3.944	4.377	2283	12/17/2004	9/22/2007	8/6/2019	*	12,726	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
388	60	021E	55.622	55.833	1125	12/17/2004	3/11/2011	3/11/2018		12,716	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
389	1259	402	18.150	19.152	5304	12/17/2004	11/12/2012	11/12/2019	*	12,714	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
390	460	111A	26.773	27.140	1925	12/17/2004	4/15/2011	4/15/2018	*	12,709	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
391	1413	BD83	0.000	0.000	30	11/14/2010	11/3/2011	11/3/2018		12,702	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
392	1477	DF3370	0.000	0.000	74	12/17/2004	4/22/2007	4/22/2014		12,701	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
393	312	0813-07	0.000	0.225	1167	12/17/2004	11/11/2011	11/11/2018	*	12,691	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
394	825	1615-01	13.406	13.561	816	9/20/2008		9/20/2018		12,668	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
395	1748	STUB6098	0.000	0.000	2	12/17/2004	12/1/2011	12/31/2014	*	12,653	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	No	Low	Medium
396	211	0604-06	2.155	2.281	681	12/17/2004	5/4/2007	5/4/2014	*	12,650	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
397	636	131	55.352	57.470	10882	12/17/2004	9/2/2010	9/2/2017	*	12,650	ILI, ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
398	209	0604-06	0.110	1.390	6585	12/17/2004	5/4/2007	5/4/2014		12,637	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
399	1073	2412-01	0.000	0.004	3	1/3/2006	6/25/2012	12/31/2014		12,633	ECDA, ICDA, HYDRO, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	Yes	Low	Medium
400	151	0405-01	11.088	11.331	1282	12/17/2004	10/11/2012	10/11/2019		12,632	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
401	643	131	8.030	8.870	4492	12/17/2004	9/2/2010	9/2/2017		12,631	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
402	1030	210B	15.070	15.958	4751	12/17/2004	5/21/2012	5/21/2019		12,631	ILI, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
403	260	0617-06	0.000	6.322	33628	12/17/2004	4/14/2009	4/14/2016	*	12,623	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
404	1826	X10781	0.000	0.006	30	12/17/2004	12/7/2010	12/7/2017		12,617	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Medium
405	1834	X6337	0.000	0.006	30	12/17/2004	12/7/2010	12/7/2017		12,617	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Medium
406	942	1816-15	4.651	4.910	1388	12/17/2004	11/8/2006	11/8/2013	*	12,607	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Master HCA	ROUTE	Begin Milepoint	End Milepoint	Footage	Date HCA Identified	Master HCA Last Assessment Date	Master HCA Assessment Due Date	Multi Dates	Risk	Assessment Methods	EC THREAT	SCC THREAT	IC THREAT	MANUF. (SEAM) THREAT	MANUF. (BODY OF PIPE) THREAT	CONST. THREAT	TPD THREAT	WROF THREAT	EQUIP THREAT	IO THREAT
407	1299	7221-16	0.000	0.027	146	12/17/2004	12/13/2010	12/13/2017		12,605	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
408	1783	STUB7911	0.054	0.058	20	1/25/2006	12/16/2010	12/16/2017		12,602	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
409	212	0604-07	2.366	2.435	365	7/31/2012		7/31/2022		12,599	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
410	213	0604-07	3.278	3.404	692	12/17/2004	9/29/2011	9/29/2018	*	12,599	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
411	869	173	5.987	6.534	2873	12/17/2004	3/8/2007	3/8/2014		12,581	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
412	1159	3017-01	2.777	2.954	946	12/17/2004	6/5/2006	6/5/2013	*	12,579	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
413	496	118A	23.341	23.462	562	9/20/2009	12/1/2011	12/1/2018		12,570	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
414	39	021C	32.304	32.534	1205	10/21/2008		12/31/2013	*	12,565	ECDA, ICDA, HYDRO, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	Yes	Low	Medium
415	86	021E	111.233	112.602	7230	12/17/2004	1/14/2012	1/14/2019		12,553	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
416	709	142N	10.462	12.069	9582	12/17/2004	5/3/2007	5/3/2014	*	12,533	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Low
417	1143	300B	450.325	451.000	4180	12/17/2004	5/4/2006	5/4/2013	*	12,530	ILI, ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
418	1343	7226-01	1.855	2.232	1993	9/20/2008		9/20/2018		12,530	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
419	320	0821-01	0.000	0.270	1430	4/13/2006	12/2/2009	12/31/2014	*	12,530	ECDA, ICDA, HYDRO, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	Yes	Low	Medium
420	450	109	32.367	32.771	2128	12/17/2004	10/1/2007	10/1/2014	*	12,526	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
421	1319	7223-01	3.669	3.785	613	12/17/2004	9/22/2007	7/26/2019		12,524	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
422	1024	210A	10.949	13.890	16395	12/17/2004	6/10/2011	6/10/2018	*	12,524	ILI, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
423	210	0604-06	1.510	1.806	1610	12/17/2004	5/4/2007	5/4/2014		12,518	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
424	74	021E	70.622	70.920	1565	12/17/2004	12/11/2007	12/11/2014		12,512	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
425	700	138D	45.100	46.199	5782	12/17/2004	12/1/2010	12/1/2017		12,501	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	No	Low	Medium
426	1851	X6428	0.000	0.003	14	12/17/2004	7/14/2010	9/2/2017		12,492	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
427	73	021E	69.130	69.335	1091	12/17/2004	12/11/2007	12/11/2014		12,490	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
428	497	118A	24.110	24.742	3263	12/17/2004	8/6/2007	8/6/2014		12,485	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
429	105	021F	10.568	13.376	19605	12/17/2004	3/3/2006	3/3/2013	*	12,484	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
430	1253	402	11.724	11.943	1167	12/17/2004	11/12/2012	11/12/2019		12,483	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
431	1575	DREG4339	0.000	0.000	115	12/19/2008		12/31/2014		12,462	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Low
432	10	0115-01	0.000	0.322	1646	12/17/2004	6/25/2012	6/25/2019		12,459	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
433	108	021F	16.357	16.711	1856	12/17/2004	3/3/2006	3/3/2013		12,458	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
434	1088	300A	237.440	238.000	2950	3/28/2006	11/11/2011	11/11/2016		12,457	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
435	1104	300A	450.830	451.289	2490	12/17/2004	9/10/2009	9/10/2016	*	12,449	ILI, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
436	758	1519-01	1.916	2.076	934	12/17/2004	3/8/2007	3/8/2014	*	12,445	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
437	318	0817-01	0.000	0.209	1082	12/17/2004	9/20/2007	9/20/2014		12,426	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
438	399	105N	13.496	23.680	55512	12/17/2004	6/25/2012	12/17/2014	*	12,423	ILI, ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
439	1652	GCUST5813	0.000	1.410	7446	12/17/2004	10/8/2009	10/8/2016	*	12,419	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
440	1423	BD9448	15.780	15.780	65	11/18/2010		12/31/2014		12,416	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
441	1424	BD9449	15.780	15.780	20	11/18/2010		12/31/2014		12,416	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
442	165	050A	5.150	5.340	1017	12/17/2004	3/16/2007	12/31/2015		12,410	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
443	1639	DRIP9875	0.000	0.000	1	5/18/2012		12/31/2015		12,405	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Low
444	500	118A	29.570	29.772	1062	12/17/2004	8/6/2007	10/18/2019		12,387	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
445	672	132	40.046	43.748	20965	12/17/2004	10/8/2009	10/8/2014	*	12,386	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Low
446	366	103	26.991	27.690	3654	12/17/2004	9/24/2011	9/24/2018		12,382	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
447	236	0611-02	0.000	0.685	3037	12/17/2004	12/4/2009	12/31/2013	*	12,376	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
448	1744	STUB6088-1	0.000	0.002	9	12/17/2004	10/1/2007	12/31/2013		12,372	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Low
449	1745	STUB6088-2	0.000	0.002	11	12/17/2004	10/1/2007	12/31/2013		12,372	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Low
450	59	021E	55.330	55.547	1163	12/17/2004	3/11/2011	3/11/2018		12,367	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
451	467	114	11.578	11.901	1708	9/15/2009		12/31/2014		12,348	ILI, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
452	26	0215-01	0.845	0.980	712	12/17/2004	11/3/2011	11/3/2018		12,345	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Low
453	918	1815-02	16.459	16.754	1360	12/17/2004	12/1/2006	12/1/2013		12,331	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
454	1170	301B	1.598	1.894	1566	12/17/2004	6/21/2011	6/21/2018		12,324	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
455	1044	220	19.750	19.887	1340	12/17/2004	1/15/2007	1/15/2014		12,317	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
456	1074	3002-01	0.000	0.000	90	12/17/2004	6/5/2006	12/31/2015		12,309	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
457	148	0405-01	8.094	8.251	824	12/17/2004	10/31/2006	10/23/2013		12,301	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
458	1331	7224-09	1.165	1.313	778	8/29/2009	4/27/2012	4/27/2019		12,278	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
459	81	021E	96.586	96.776	1003	6/13/2012		1/14/2019		12,272	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
460	948	1817-01	1.873	2.473	3862	12/17/2004	11/8/2006	11/8/2013	*	12,271	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
461	1157	3017-01	4.189	4.330	747	12/17/2004	6/5/2006	12/31/2013		12,269	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
462	556	119C	3.908	6.299	12694	12/17/2004	4/7/2010	4/7/2017		12,267	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
463	1601	DREG5157	0.000	0.010	65	12/17/2004	11/8/2006	12/31/2013		12,257	ECDA, HYDRO, P&M	Yes	No	No	Unstable	No	No	Yes	Yes	Low	Medium
464	1829	X11133	0.000	0.004	19	5/18/2012		5/18/2022		12,253	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
465	1830	X11134	0.000	0.004	19	5/18/2012		5/18/2022		12,253	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
466	1757	STUB6185	0.000	0.000	20	12/17/2004	12/4/2009	12/4/2016		12,252	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
467	169	050A	11.485	11.645	864	12/17/2004	9/23/2008	12/31/2014	*	12,245	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
468	827	1615-01	11.931	12.534	3276	12/17/2004	12/4/2009	12/4/2016	*	12,238	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
469	245	0613-01	0.195	2.582	12077	12/17/2004	9/14/2009	9/14/2016	*	12,236	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
470	1493	DF3430	0.070	0.080	10	2/16/2006	4/28/2010	4/28/2017		12,230	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
471	1831	X11160	0.000	0.001	6	8/4/2008		8/4/2018		12,224	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
472	463	114	33.235	34.070	4429	12/17/2004	1/22/2010	1/22/2017	*	12,221	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
473	1567	DREG4207	0.020	0.600	3063	12/17/2004	11/3/2011	11/3/2018		12,218	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
474	78	021E	79.546	79.761	1153	12/17/2004	12/11/2007	12/11/2014		12,213	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
475	1189	303	0.049	4.000	21200	12/17/2004	4/21/2008	4/21/2015		12,211	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
476	508	118A	65.135	67.000	10159	12/17/2004	8/6/2007	8/6/2014		12,203	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
477	509	118A	67.400	67.547	768	12/17/2004	8/6/2007	8/6/2014		12,203	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
478	997	191-1	9.924	10.070	770	12/9/2008	5/3/2011	7/19/2018	*	12,180	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
479	1260	402	19.253	19.567	1617	12/17/2004	11/12/2012	11/12/2019		12,178	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
480	251	0617-01	0.000	1.105	5833	12/17/2004	4/14/2009	4/14/2016	*	12,173	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
481	849	167	29.422	29.696	1440	9/22/2010	5/1/2012	5/1/2017		12,172	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
482	95	021E	137.030	137.380	1989	12/17/2004	3/3/2006	3/3/2013	*	12,160	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
483	38	021B	11.090	11.298	1004	12/17/2004	12/7/2010	12/7/2017		12,159	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
484	1604	DREG5266	0.000	0.028	150	12/17/2004	1/8/2007	1/8/2014		12,158	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
485	547	119B	1.019	2.871	9932	12/17/2004	7/14/2009	7/14/2016	*	12,150	ILI, ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
486	1593	DREG4892	0.000	0.015	78	8/13/2009		8/13/2019		12,146	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
487	181	057A	13.271	13.890	2945	12/17/2004	12/6/2011	12/6/2018		12,143	ILI, SCCDA, P&M	Yes	Yes	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Master HCA	ROUTE	Begin Milepoint	End Milepoint	Footage	Date HCA Identified	Master HCA Last Assessment Date	Master HCA Assessment Due Date	Multi Dates	Risk	Assessment Methods	EC THREAT	SCC THREAT	IC THREAT	MANUF. (SEAM) THREAT	MANUF. (BODY OF PIPE) THREAT	CONST. THREAT	TPD THREAT	WROF THREAT	EQUIP THREAT	IO THREAT
488	1676	GCUST5916	0.015	0.097	437	12/17/2004	12/10/2010	12/10/2015		12,138	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
489	953	1818-01	0.000	0.080	773	12/17/2004	8/23/2011	8/23/2018		12,133	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
490	201	0603-01	0.000	0.480	2661	12/17/2004	9/29/2011	12/31/2013	*	12,130	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
491	1824	STUB9953	0.000	0.000	3	12/17/2004	9/22/2007	9/22/2014		12,125	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
492	967	187	32.703	33.065	1884	12/17/2004	12/4/2006	12/4/2013		12,124	HYDRO, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
493	482	118A	2.007	2.187	953	12/9/2008	12/1/2011	12/1/2018		12,122	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
494	877	173-1	0.160	0.735	3032	12/17/2004	3/8/2007	3/8/2014	*	12,100	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
495	713	142S	0.589	3.000	12938	12/17/2004	9/14/2011	9/14/2018	*	12,099	ILI, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
496	495	118A	22.878	23.180	1700	12/17/2004	8/6/2007	8/6/2014		12,097	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
497	1153	3017-01	6.707	6.950	1286	12/17/2004	6/5/2006	12/31/2013	*	12,095	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
498	243	0611-29	0.000	0.000	42	9/30/2010	6/13/2012	6/13/2019		12,095	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
499	917	1815-02	16.284	16.393	500	12/17/2004	12/1/2006	12/1/2013		12,094	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
500	1801	STUB8629	11.371	11.371	3	12/17/2004	12/1/2011	12/31/2015		12,093	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
501	1156	3017-01	4.388	4.686	1572	12/17/2004	6/5/2006	12/31/2013		12,092	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
502	507	118A	60.781	60.953	912	12/17/2004	8/6/2007	8/6/2014		12,087	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
503	142	0404-11	0.000	0.040	192	11/30/2010	9/29/2011	9/29/2018		12,085	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
504	404	107	36.038	38.120	10838	12/17/2004	7/27/2010	7/27/2017		12,082	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
505	715	142S	4.515	8.732	22417	12/17/2004	9/14/2011	9/14/2018		12,081	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Low
506	118	021H	0.000	0.890	4855	12/17/2004	12/7/2010	12/7/2017	*	12,073	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
507	574	1209-05	2.407	2.519	592	12/17/2004	12/1/2010	12/1/2017		12,067	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	No	Low	Medium
508	1820	STUB9146	0.000	0.001	3	12/17/2004	11/8/2006	12/31/2013		12,064	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
509	810	1614-01	2.434	2.536	537	10/21/2011		12/31/2015		12,063	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
510	449	109	31.655	31.934	1478	12/19/2008	12/15/2010	12/15/2015	*	12,050	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
511	676	132B	0.000	0.370	1936	12/17/2004	4/22/2007	4/22/2014	*	12,048	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Low
512	486	118A	8.427	8.639	1206	12/17/2004	8/6/2007	8/6/2014		12,043	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
513	1064	2408-05	0.000	0.368	1970	12/17/2004	9/2/2010	9/2/2017	*	12,041	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
514	1463	DF3249	12.060	12.060	20	12/17/2004	11/3/2011	11/3/2018		12,041	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
515	322	0833-01	3.411	3.610	1062	11/19/2010	11/11/2011	11/11/2018		12,040	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
516	876	173	14.233	14.663	2136	12/17/2004	3/8/2007	3/8/2014		12,038	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
517	1162	3017-01	0.000	0.498	2618	12/17/2004	6/5/2006	6/5/2013	*	12,029	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
518	23	0211-01	0.000	0.140	719	12/17/2004	11/3/2011	11/3/2018	*	12,028	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Low
519	548	119B	4.080	5.571	7883	12/17/2004	7/14/2009	7/14/2016	*	12,023	ILI, ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
520	872	173	8.250	8.838	3122	12/17/2004	3/8/2007	3/8/2014		12,022	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
521	947	1817-01	1.058	1.716	3693	12/17/2004	11/8/2006	11/8/2013	*	12,014	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
522	179	050A-1	0.000	1.612	7938	12/17/2004	3/16/2007	3/16/2014	*	12,005	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
523	511	118A	72.901	73.897	5267	12/17/2004	8/6/2007	8/6/2014		12,004	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
524	739	1509-01	1.431	1.498	355	10/9/2007	5/18/2010	5/18/2017		12,002	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
525	1573	DREG4325	0.000	0.060	300	12/17/2004	8/24/2007	8/24/2014		11,999	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
526	783	1606-01	0.010	0.060	250	8/13/2009		8/13/2019		11,998	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
527	302	0804-01	0.482	0.999	2771	12/17/2004	2/23/2012	2/23/2019		11,991	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
528	1688	GCUST8387	12.060	12.060	484	12/17/2004	11/3/2011	11/3/2016	*	11,982	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
529	1254	402	13.143	13.671	2745	12/17/2004	11/12/2012	11/12/2019		11,980	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
530	1226	400-3	293.880	294.364	2558	12/17/2004	11/14/2011	11/14/2018		11,975	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Medium
531	946	1817-01	0.000	0.968	4926	12/17/2004	11/8/2006	11/8/2013	*	11,974	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
532	170	050A	11.780	12.000	1121	12/17/2004	9/23/2008	12/31/2014	*	11,967	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
533	253	0617-06	19.877	20.455	3242	12/17/2004	4/7/2010	4/7/2017	*	11,964	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
534	1662	GCUST5838	0.000	0.030	158	8/13/2009		8/13/2019		11,954	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
535	1504	DF6836	0.000	0.010	67	12/17/2004	10/31/2006	12/31/2013		11,945	ECDA, HYDRO, P&M	Yes	No	No	Unstable	No	No	Yes	Yes	Low	Medium
536	405	107	32.558	35.838	17249	12/17/2004	7/27/2010	7/27/2015	*	11,935	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
537	87	021E	112.602	114.490	9908	12/17/2004	1/14/2012	1/14/2019		11,931	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
538	1198	316-20	0.036	0.870	4381	7/16/2008	9/7/2010	9/7/2017		11,921	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
539	63	021E	59.564	60.354	4191	12/17/2004	3/11/2011	3/11/2018	*	11,919	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
540	998	191-1	9.893	9.920	139	12/9/2008	3/21/2011	3/21/2019		11,917	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
541	615	124B	20.995	21.085	492	6/21/2012		6/21/2022		11,915	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
542	1804	STUB8665	0.000	0.003	15	8/10/2007	5/11/2012	12/31/2013		11,906	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
543	409	107	23.268	23.584	1696	12/17/2004	7/27/2010	7/27/2015	*	11,902	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
544	1459	DF3223	0.000	0.011	58	12/17/2004	3/3/2006	12/31/2013		11,899	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
545	1213	400	293.861	294.340	2555	12/17/2004	11/2/2011	11/2/2018		11,894	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Medium
546	471	114	8.189	8.784	3118	12/17/2004	10/26/2012	10/26/2019		11,894	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
547	91	021E	120.310	120.433	651	12/17/2004	3/3/2006	3/3/2013		11,893	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
548	949	1817-01	2.591	2.962	1967	12/17/2004	11/8/2006	11/8/2013		11,890	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
549	771	153	20.012	21.811	9640	12/17/2004	2/16/2010	2/16/2017	*	11,883	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
550	1154	3017-01	6.190	6.378	978	12/17/2004	6/5/2006	12/31/2013		11,862	ECDA, HYDRO, P&M	Yes	No	No	Unstable	No	No	Yes	Yes	Low	Medium
551	1097	300A	353.560	354.306	4100	12/17/2004	11/11/2011	11/11/2016	*	11,854	ILI, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
552	1183	303	39.324	42.830	19524	12/17/2004	4/21/2008	4/21/2015		11,854	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
553	441	109	0.714	2.732	10561	12/17/2004	10/1/2007	10/1/2014	*	11,842	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
554	1050	220	30.288	30.458	930	12/17/2004	1/15/2007	1/15/2014		11,842	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
555	1096	300A	344.266	345.120	4469	12/17/2004	5/3/2007	5/3/2014	*	11,841	LI, ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
556	613	124B	19.961	20.034	410	6/6/2011		6/6/2021		11,840	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
557	1544	DREG3824	0.000	0.087	461	12/17/2004	12/7/2010	12/7/2017		11,838	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
558	1434	DCUST1423	0.209	0.339	689	12/17/2004	10/8/2009	10/8/2016		11,835	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
559	1533	DFDS3631	0.000	0.003	7	11/14/2010		12/31/2013	*	11,834	ECDA, HYDRO, P&M	Yes	No	No	Unstable	No	No	Yes	Yes	Low	Low
560	1561	DREG4180	0.232	0.750	2761	12/17/2004	3/28/2011	3/28/2018	*	11,833	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
561	504	118A	57.555	58.210	3434	12/17/2004	8/6/2007	8/6/2014		11,831	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
562	1594	DREG4917	0.000	0.010	69	12/17/2004	8/24/2007	8/24/2014		11,831	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
563	551	119B	7.427	8.113	3658	12/17/2004	7/14/2009	7/14/2016		11,825	ILI, P&M	Yes	No	Yes	No	No	No	Yes	No	Low	Medium
564	896	177A	77.501	79.000	7923	12/17/2004	10/20/2008	10/20/2015		11,820	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
565	754	1519-01	1.431	1.510	423	12/17/2004	3/8/2007	3/8/2014		11,806	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
566	402	105N-3	0.000	0.000	1219	12/17/2004	11/4/2012	11/4/2019		11,804	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
567	1568	DREG4208	0.000	0.000	129	12/17/2004	11/3/2011	11/3/2018		11,793	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
568	972	187	41.430	41.540	607	12/17/2004	12/4/2006	12/4/2013		11,790	HYDRO, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Master HCA	ROUTE	Begin Milepoint	End Milepoint	Footage	Date HCA Identified	Master HCA Last Assessment Date	Master HCA Assessment Due Date	Multi Dates	Risk	Assessment Methods	EC THREAT	SCC THREAT	IC THREAT	MANUF. (SEAM) THREAT	MANUF. (BODY OF PIPE) THREAT	CONST. THREAT	TPD THREAT	WROF THREAT	EQUIP THREAT	IO THREAT
569	252	0617-03	0.000	1.687	8910	12/17/2004	2/1/2007	2/1/2014		11,789	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	No	Low	Medium
570	43	021C	43.190	43.432	1182	12/17/2004	12/7/2010	12/7/2017		11,787	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
571	891	177A	8.900	9.100	1441	12/17/2004	6/7/2007	6/7/2014		11,778	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
572	434	108	67.437	74.930	42805	12/17/2004	12/4/2009	12/4/2016		11,775	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
573	1194	310	37.082	37.570	2554	12/17/2004	5/20/2011	5/20/2018		11,773	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
574	94	021E	129.281	129.418	726	7/27/2010		7/27/2020		11,765	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
575	954	1818-01	0.489	2.927	13154	12/17/2004	11/8/2006	11/8/2013	*	11,765	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
576	491	118A	14.960	15.180	1178	12/17/2004	8/6/2007	8/6/2014		11,764	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
577	492	118A	16.300	16.445	782	12/17/2004	8/6/2007	8/6/2014		11,764	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
578	731	150-1	0.000	0.010	56	12/17/2004	1/20/2007	1/20/2014		11,749	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
579	462	111A-1	6.818	7.182	1915	12/17/2004	7/19/2012	7/19/2019		11,748	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	No	Low	Medium
580	15	0210-01	6.183	6.620	1817	12/17/2004	3/23/2009	3/23/2016		11,748	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Low
581	1627	DREG9910	0.000	0.001	4	5/11/2009	6/5/2012	12/31/2013		11,735	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
582	1483	DF3403	0.000	0.000	20	12/17/2004	12/4/2009	12/4/2014		11,727	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	No	Low	Medium
583	395	105C	0.000	2.030	10641	12/17/2004	11/4/2012	11/4/2019		11,726	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
584	1114	300A	487.184	488.931	8813	12/17/2004	9/10/2009	9/10/2014	*	11,715	ILI, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
585	868	173	5.171	5.297	680	3/9/2006	6/26/2012	6/26/2019		11,701	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
586	301	0651-01	1.643	2.050	2151	12/17/2004	4/7/2010	4/7/2017	*	11,699	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
587	1887	X7781	0.000	0.023	120	12/17/2004	10/1/2007	10/1/2014		11,699	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Low
588	202	0604-01	3.727	3.951	1181	12/17/2004	5/4/2007	5/4/2014		11,691	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
589	111	021G	15.862	17.171	7082	12/17/2004	12/7/2010	12/7/2017		11,690	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Medium
590	112	021G	14.170	15.032	5477	12/17/2004	12/7/2010	12/7/2017		11,690	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Medium
591	993	191-1	14.181	14.707	2775	12/17/2004	6/5/2006	6/5/2013		11,689	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
592	1011	202	17.857	18.343	2822	12/17/2004	3/29/2011	3/29/2018		11,686	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
593	759	1519-01	0.782	1.342	2949	12/17/2004	3/8/2007	3/8/2014	*	11,683	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
594	708	142N	7.283	9.882	14683	12/17/2004	5/3/2007	12/31/2013	*	11,675	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Low
595	278	0618-03	1.969	2.719	3929	12/17/2004	7/26/2008	7/26/2015	*	11,671	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
596	347	101	27.772	32.493	27737	12/17/2004	11/3/2011	11/3/2018	*	11,668	ILI, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Low
597	1080	300A	150.263	153.540	17325	12/17/2004	11/11/2011	11/11/2016	*	11,668	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
598	67	021E	64.527	64.698	917	3/16/2006	12/11/2007	12/11/2014	*	11,662	ILI, ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
599	80	021E	81.862	84.526	14177	12/17/2004	12/11/2007	12/11/2014		11,662	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
600	951	1818-01	3.054	4.850	10172	12/17/2004	11/8/2006	11/8/2013	*	11,661	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
601	506	118A	60.287	60.450	928	12/17/2004	8/6/2007	8/6/2014	*	11,661	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
602	246	0613-01	2.630	3.525	4490	12/17/2004	9/14/2009	9/14/2016		11,661	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
603	1433	DCUST1416	0.000	0.005	28	12/17/2004	10/25/2006	10/25/2013		11,656	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
604	174	050A	17.080	17.348	703	12/17/2004	3/16/2007	12/31/2014		11,655	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
605	407	107	26.433	31.220	28856	12/17/2004	7/27/2010	7/27/2015	*	11,651	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
606	558	1202-01	0.000	0.520	2743	12/17/2004	5/14/2007	12/31/2013	*	11,645	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
607	1058	2405-01	0.548	0.611	285	12/17/2004	2/1/2010	2/1/2017	*	11,640	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
608	75	021E	71.473	71.922	2384	12/17/2004	12/11/2007	12/11/2014		11,636	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
609	314	0817-01	1.243	1.300	304	12/17/2004	9/20/2007	12/31/2015		11,633	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
610	315	0817-01	1.121	1.210	479	12/17/2004	9/20/2007	12/31/2014		11,633	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
611	316	0817-01	0.992	1.070	418	12/17/2004	9/20/2007	12/31/2015		11,633	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
612	1833	X6335	0.000	0.005	26	12/17/2004	3/3/2006	3/3/2013	*	11,631	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
613	853	172A	66.535	67.500	5095	12/17/2004	4/29/2012	4/29/2017		11,630	ECDA, ICDA, P&M	Yes	No	Yes	No	Stable	Stable	Yes	No	Low	Medium
614	612	124B	16.676	16.813	723	12/17/2004	3/10/2007	3/10/2014		11,627	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
615	445	109	21.831	23.251	7517	12/17/2004	3/23/2009	3/23/2016	*	11,626	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
616	1252	402	9.870	10.140	1430	12/17/2004	2/20/2007	12/31/2015		11,620	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
617	150	0405-01	9.044	9.203	835	12/17/2004	10/31/2006	10/23/2013		11,620	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
618	1607	DREG5282	0.850	1.080	1195	12/17/2004	1/15/2007	12/31/2014		11,610	ECDA, HYDRO, P&M	Yes	No	No	Unstable	No	No	Yes	No	Low	Medium
619	473	116	12.658	12.890	2208	12/17/2004	12/16/2010	12/16/2017		11,593	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
620	837	1617-01	0.000	0.305	1619	12/17/2004	8/13/2007	8/13/2014		11,593	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
621	1057	2405-01	0.131	0.547	2288	12/17/2004	2/1/2010	2/1/2017	*	11,586	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
622	1036	210C	20.794	22.387	8393	12/17/2004	1/8/2007	1/8/2014	*	11,581	ILI, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
623	1008	197C-1	16.784	17.050	1424	12/17/2004	8/19/2011	8/19/2018		11,580	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
624	1798	STUB8626	0.000	0.001	3	12/17/2004	12/1/2011	12/31/2014		11,580	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
625	1799	STUB8627	0.000	0.001	3	12/17/2004	12/1/2011	12/31/2014		11,580	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
626	893	177A	26.406	26.628	1205	9/20/2009		12/31/2015	*	11,580	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
627	632	1302-03	0.000	0.000	12	6/21/2010	6/5/2012	6/5/2019		11,578	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
628	1342	7226-01	0.000	0.253	1326	12/17/2004	9/22/2007	9/22/2014		11,572	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
629	1713	STUB10952	0.000	0.000	1.46871749	12/17/2004	10/8/2009	8/17/2018		11,567	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
630	1893	X9011	0.000	0.010	50	12/17/2004	12/4/2009	12/4/2014		11,564	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	No	No	Yes	No	Low	Medium
631	470	114	9.242	9.539	1516	12/17/2004	6/13/2007	12/31/2013	*	11,563	ILI, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
632	1912	STUB6275	0.000	0.000	6	12/17/2004	12/1/2011	12/1/2018		11,560	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
633	673	132	45.080	45.699	3239	12/17/2004	10/8/2009	10/8/2014	*	11,555	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
634	68	021E	64.908	65.144	1244	12/17/2004	12/11/2007	12/11/2014	*	11,538	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
635	354	101	39.809	41.701	10342	12/17/2004	12/4/2008	12/4/2015		11,532	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
636	909	177B	7.256	7.510	1335	12/17/2004	10/20/2008	10/20/2015		11,527	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
637	1075	3008-01	0.000	0.049	258	11/18/2010	6/5/2012	12/31/2014	*	11,525	ECDA, HYDRO, P&M	Yes	No	No	Unstable	No	No	Yes	Yes	Low	Medium
638	816	1614-08	0.000	0.177	936	12/17/2004	8/24/2007	8/24/2014	*	11,516	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
639	1262	402	20.493	20.822	1734	12/17/2004	11/12/2012	11/12/2019		11,515	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
640	1586	DREG4731	0.000	0.016	85	12/17/2004	10/8/2009	12/31/2014	*	11,499	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
641	1187	303	20.290	24.429	21799	12/17/2004	4/21/2008	4/21/2015		11,499	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
642	1668	GCUST5856	0.000	0.100	532	12/17/2004	12/4/2009	12/4/2016		11,497	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
643	1597	DREG4919	0.291	0.350	316	12/17/2004	3/28/2007	3/28/2014		11,491	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
644	1055	2403-12	1.018	1.822	4233	12/17/2004	10/2/2012	10/2/2019	*	11,480	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
645	1175	301F	4.770	6.580	9732	12/17/2004	6/21/2011	6/21/2018		11,480	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
646	1103	300A	450.366	450.830	2385	12/17/2004	9/22/2011	9/22/2018		11,479	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Medium
647	1650	GCUST5792	0.000	0.000	263	11/14/2010		12/31/2013		11,476	ECDA, HYDRO, P&M	Yes	No	No	Unstable	No	No	Yes	Yes	Low	Low
648	1125	300B	190.610	191.402	4229	12/17/2004	11/11/2011	11/11/2016		11,454	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	No	Low	Medium
649	351	101	34.319	37.552	15997	12/17/2004	12/4/2008	12/4/2015	*	11,451	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Low

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Master HCA	ROUTE	Begin Milepoint	End Milepoint	Footage	Date HCA Identified	Master HCA Last Assessment Date	Master HCA Assessment Due Date	Multi Dates	Risk	Assessment Methods	EC THREAT	SCC THREAT	IC THREAT	MANUF. (SEAM) THREAT	MANUF. (BODY OF PIPE) THREAT	CONST. THREAT	TPD THREAT	WROF THREAT	EQUIP THREAT	IO THREAT
650	1155	3017-01	4.945	5.006	622	2/16/2006	7/19/2011	7/19/2018		11,447	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
651	390	105B	6.223	11.820	29567	12/17/2004	10/1/2007	10/1/2014	*	11,446	ILI, ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
652	503	118A	56.077	56.266	1001	12/17/2004	8/6/2007	8/6/2014		11,440	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
653	44	021C	43.623	43.835	1076	12/17/2004	12/7/2010	12/7/2017		11,439	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
654	1742	STUB6082	0.000	0.001	5	12/17/2004	6/13/2012	6/13/2017		11,437	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	No	Low	Medium
655	237	0611-02	1.000	1.650	3099	12/17/2004	12/4/2009	12/31/2013		11,433	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
656	957	181A	15.310	15.370	284	12/17/2004	11/8/2006	11/8/2013		11,426	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
657	930	1816-01	8.138	8.352	1071	12/17/2004	11/8/2006	11/8/2013		11,425	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
658	391	105B	4.257	6.031	9504	12/17/2004	10/1/2007	10/1/2014		11,422	ILI, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
659	505	118A	58.401	60.149	9242	12/17/2004	8/6/2007	8/6/2014	*	11,421	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
660	1769	STUB6314	0.000	0.003	15	9/20/2008		12/31/2013		11,418	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
661	65	021E	62.480	62.894	2346	12/17/2004	3/11/2011	3/11/2018		11,413	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
662	820	1614-13	0.974	1.208	1248	12/17/2004	8/24/2007	8/24/2014		11,411	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
663	1596	DREG4919	0.259	0.290	162	12/17/2004	8/24/2007	8/24/2014		11,411	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
664	578	121	3.429	3.547	653	8/23/2008		8/23/2018		11,409	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
665	1204	331A	7.910	8.326	2204	12/17/2004	12/10/2010	12/10/2017		11,403	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
666	499	118A	28.955	29.335	2028	12/17/2004	8/6/2007	8/6/2014	*	11,399	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
667	247	0613-01	3.986	4.383	2097	12/17/2004	4/29/2012	4/29/2019		11,397	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
668	214	0604-07	6.364	6.410	245	9/18/2009		9/18/2019		11,393	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
669	1047	220	22.733	22.848	597	12/17/2004	1/15/2007	1/15/2014		11,392	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
670	455	109	40.015	44.206	27768	12/17/2004	10/1/2007	12/31/2013	*	11,388	ECDA, HYDRO, P&M	Yes	No	No	Unstable	No	No	Yes	Yes	Low	Low
671	422	108	35.437	35.673	1235	12/17/2004	8/20/2012	8/20/2019		11,383	ILI, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
672	1290	7221-10	15.988	16.130	754	12/17/2004	9/22/2009	9/22/2016		11,379	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
673	1081	300A	154.177	154.770	3198	12/17/2004	5/3/2007	5/3/2014	*	11,375	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
674	811	1614-01	3.792	3.895	548	3/15/2006	12/4/2009	12/4/2016		11,374	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
675	340	101	0.627	3.200	13278	12/17/2004	6/5/2011	3/22/2018	*	11,371	ILI, ECDA, ICDA, P&M	Yes	No	Yes	No	Stable	Stable	Yes	Yes	Low	Medium
676	1528	DFDS3580	0.000	0.040	202	6/20/2012		12/31/2015	*	11,367	ECDA, ICDA, HYDRO, P&M	Yes	No	Yes	Unstable	No	No	Yes	Yes	Low	Medium
677	406	107	31.220	32.389	5853	12/17/2004	7/27/2010	7/27/2017		11,365	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
678	40	021C	33.555	35.432	10257	12/17/2004	3/3/2006	3/3/2013	*	11,363	ECDA, ICDA, HYDRO, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	Yes	Low	Medium
679	388	105A	38.000	46.742	41848	12/17/2004	7/27/2010	12/31/2014	*	11,360	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
680	1602	DREG5201	0.000	0.000	24	12/17/2004	6/5/2006	12/31/2013		11,360	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
681	384	1035-05	4.117	4.299	959	12/21/2011		12/21/2021		11,359	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
682	1056	2403-12	2.229	2.877	3420	12/17/2004	10/2/2012	10/2/2019		11,356	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
683	1438	DCUST1739	0.000	0.002	8	12/17/2004	8/13/2007	12/31/2013		11,354	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
684	1415	BD8746	0.000	0.000	2	9/14/2010	7/23/2012	7/23/2019		11,351	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Low
685	982	187	64.336	64.531	1032	12/17/2004	12/4/2006	12/4/2013		11,347	HYDRO, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
686	1857	X6446	0.000	0.010	35	12/17/2004	7/31/2008	7/31/2015		11,345	ECDA, HYDRO, P&M	Yes	No	No	Unstable	No	No	Yes	No	Low	Medium
687	85	021E	110.825	111.071	1287	3/28/2006	1/14/2012	1/14/2019		11,334	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
688	1100	300A	414.573	415.156	2979	12/17/2004	9/10/2009	9/10/2014	*	11,330	ILI, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
689	461	111A	27.313	27.536	1216	12/17/2004	2/2/2011	2/2/2018	*	11,327	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
690	1687	GCUST6984	0.000	0.200	731	12/17/2004	4/22/2007	12/31/2013	*	11,325	ECDA, HYDRO, P&M	Yes	No	No	Unstable	No	No	Yes	Yes	Low	Medium
691	1558	DREG4176	0.000	0.014	74	4/13/2006	12/2/2009	12/31/2014	*	11,313	ECDA, HYDRO, P&M	Yes	No	No	Unstable	No	No	Yes	Yes	Low	Medium
692	1641	GCUST5748	0.000	0.076	398	1/20/2010		1/20/2020	*	11,305	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
693	565	1202-17	0.000	1.727	9116	12/17/2004	5/14/2007	5/14/2014		11,301	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
694	117	021G	1.118	2.141	5390	12/17/2004	12/7/2010	12/7/2017		11,297	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Medium
695	1768	STUB6313	0.000	0.003	15	9/20/2008		12/31/2013		11,292	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
696	1781	STUB7784	0.000	0.002	10	9/20/2008		12/31/2013		11,292	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
697	1203	331A	5.590	5.681	484	11/22/2008	12/10/2010	12/10/2017		11,291	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
698	1199	316-21	0.924	1.080	697	7/16/2008	9/7/2010	9/7/2017		11,287	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
699	344	101	9.807	12.400	13431	12/17/2004	11/3/2011	11/3/2018		11,284	ILI, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
700	490	118A	12.580	13.040	2490	12/17/2004	8/6/2007	8/6/2014		11,283	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
701	1345	7226-01	5.532	5.590	309	12/17/2004	9/22/2007	9/22/2014		11,280	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
702	208	0604-04	2.473	3.172	3691	12/17/2004	5/4/2007	5/4/2014	*	11,279	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
703	679	134A	33.615	34.330	3748	12/17/2004	5/21/2007	5/21/2014		11,279	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
704	263	0617-06	11.011	13.142	11249	12/17/2004	4/7/2010	4/7/2017		11,277	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	No	Low	Medium
705	1373	BD143	0.000	0.000	59	2/1/2012		12/31/2014		11,269	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	Yes	Low	Low
706	1378	BD277	0.000	0.000	59	2/1/2012		12/31/2014		11,269	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	Yes	Low	Low
707	1402	BD7045	0.000	0.002	10	6/13/2012		12/31/2015		11,261	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
708	164	050A	2.715	3.093	1959	12/17/2004	3/16/2007	3/16/2014	*	11,253	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
709	913	1813-02	8.770	9.262	2235	12/17/2004	12/1/2006	12/1/2013	*	11,253	ECDA, ICDA, HYDRO, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	Yes	Low	Medium
710	1320	7223-01	2.739	2.950	1110	12/17/2004	9/22/2007	7/26/2019		11,252	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	No	Low	Medium
711	276	0618-03	0.349	0.486	733	10/30/2007	8/20/2012	8/20/2019		11,251	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
712	1536	DFDS3662	0.000	0.000	8	11/15/2010		11/15/2020		11,250	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
713	813	1614-02	2.463	2.584	640	10/21/2011		10/21/2021		11,248	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
714	1674	GCUST5901	0.000	0.015	80	1/3/2006	6/25/2012	6/25/2019		11,245	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
715	498	118A	24.896	26.363	7774	12/17/2004	8/6/2007	8/6/2014		11,242	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
716	1677	GCUST5917	0.000	0.068	362	12/17/2004	12/10/2010	12/10/2017		11,240	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	No	No	Yes	Yes	Low	Medium
717	781	1603-01	0.716	1.236	2744	12/17/2004	8/24/2007	8/24/2014	*	11,240	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
718	1341	7225-02	2.190	2.342	804	12/17/2004	9/22/2007	9/22/2014		11,230	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
719	175	050A	17.697	18.620	5801	12/17/2004	3/16/2007	3/16/2014	*	11,228	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
720	937	1816-01	17.067	17.448	2099	12/17/2004	11/8/2006	11/8/2013	*	11,219	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
721	528	118B	10.886	12.070	6323	12/17/2004	12/1/2011	12/1/2018		11,214	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
722	109	021G	19.730	20.839	5741	12/17/2004	12/7/2010	12/7/2017		11,211	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
723	1790	STUB8203	0.000	0.001	3	12/17/2004		12/31/2013		11,204	ECDA, HYDRO, P&M	Yes	No	No	Unstable	No	No	Yes	Yes	Low	Medium
724	576	1209-06	5.254	5.720	2457	5/19/2010	12/1/2010	12/1/2017		11,203	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
725	235	0611-01	0.000	1.070	5640	12/17/2004	12/4/2009	12/4/2016		11,197	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
726	69	021E	65.291	65.419	672	8/22/2009		8/22/2019		11,195	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
727	71	021E	67.251	67.485	1224	12/17/2004	12/11/2007	12/11/2014		11,195	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
728	369	103	22.942	23.230	1553	12/17/2004	9/24/2011	9/24/2018		11,195	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
729	716	142S	8.782	8.983	1129	12/17/2004	9/14/2011	9/14/2018	*	11,193	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Low
730	1410	BD80	22.790	22.790	51	11/14/2010	11/3/2011	11/3/2018		11,188	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Low

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Master HCA	ROUTE	Begin Milepoint	End Milepoint	Footage	Date HCA Identified	Master HCA Last Assessment Date	Master HCA Assessment Due Date	Multi Dates	Risk	Assessment Methods	EC THREAT	SCC THREAT	IC THREAT	MANUF. (SEAM) THREAT	MANUF. (BODY OF PIPE) THREAT	CONST. THREAT	TPD THREAT	WROF THREAT	EQUIP THREAT	IO THREAT
731	859	172C	0.000	0.250	1317	12/17/2004	12/16/2010	12/16/2017		11,186	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
732	1063	2408-05	0.540	1.550	5349	12/17/2004	9/2/2010	9/2/2017		11,185	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
733	378	1035-05	0.000	0.236	1249	12/17/2004	2/20/2007	2/20/2014		11,184	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
734	1325	7224-01	6.008	6.020	88	12/17/2004	8/3/2012	8/3/2019		11,179	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
735	30	021A	23.920	24.654	3788	12/17/2004	12/7/2010	12/7/2017		11,178	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
736	1577	DREG4388	0.000	0.070	359	12/17/2004	8/6/2007	8/6/2014		11,176	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
737	483	118A	0.855	1.200	1826	12/17/2004	8/6/2007	8/6/2014	*	11,175	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
738	485	118A	7.857	8.001	830	6/7/2012		10/18/2019		11,171	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
739	1113	300A	484.950	486.951	11263	12/17/2004	9/10/2009	9/10/2014	*	11,167	ILI, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
740	478	118A	0.239	0.325	593	12/17/2004	8/6/2007	8/6/2014	*	11,165	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
741	542	119A	8.838	11.130	12357	12/17/2004	4/7/2010	12/31/2015	*	11,161	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	No	Low	Medium
742	1038	210C-1	2.669	3.760	5467	12/17/2004	1/8/2007	1/8/2014		11,160	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
743	1400	BD67	0.000	0.004	26	11/22/2010		11/22/2020		11,159	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	No	No	Yes	Yes	Low	Medium
744	51	021C-1	35.180	36.260	5739	12/17/2004	3/3/2006	3/3/2013	*	11,155	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
745	92	021E	120.900	121.210	1610	12/17/2004	3/3/2006	3/3/2013		11,154	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
746	448	109	30.629	30.850	1178	2/13/2012		10/26/2017		11,154	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
747	807	1613-01	1.722	1.849	669	12/17/2004	12/4/2009	12/4/2016		11,152	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
748	1003	197B	4.073	4.520	2359	12/17/2004	3/28/2007	3/28/2014		11,150	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
749	981	187	56.852	56.981	683	12/17/2004	12/4/2006	12/4/2013		11,150	HYDRO, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
750	1508	DF6873	0.000	0.000	12	12/17/2004	6/5/2006	12/31/2013		11,150	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
751	1816	STUB8905	0.000	0.000	3	1/30/2006	4/18/2011	12/31/2015		11,133	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
752	596	123	6.505	6.864	1978	10/19/2007	8/20/2012	12/31/2014	*	11,133	ECDA, ICDA, HYDRO, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	No	Low	Medium
753	477	118A	0.000	0.198	1080	12/17/2004	8/6/2007	8/6/2014		11,124	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
754	1603	DREG5261	0.000	0.000	154	11/15/2010		11/15/2020		11,120	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
755	1458	DF3220	0.000	0.002	10	12/17/2004	12/7/2010	12/7/2017		11,115	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
756	54	021D	22.411	25.005	13782	12/17/2004	11/13/2009	11/13/2016	*	11,107	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
757	328	0833-01	6.321	6.497	927	4/13/2006	12/2/2009	12/2/2016		11,104	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
758	1337	7225-02	0.000	0.635	3352	12/17/2004	9/22/2007	9/22/2014		11,102	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
759	532	118B	17.020	17.450	2280	12/17/2004	12/1/2011	12/1/2018		11,100	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
760	533	118B	17.650	17.883	1226	12/17/2004	10/18/2012	10/18/2019		11,100	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
761	1524	DF9012	0.000	0.000	14	12/17/2004	1/14/2010	1/14/2017		11,099	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
762	368	103	23.380	24.889	7750	12/17/2004	9/24/2011	9/24/2018		11,098	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
763	912	1813-02	1.000	1.094	495	12/17/2004	12/1/2006	12/1/2013		11,089	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
764	675	132A	0.000	1.264	6754	12/17/2004	10/8/2009	10/8/2016	*	11,089	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Medium
765	64	021E	60.754	61.430	3585	12/17/2004	3/11/2011	3/11/2018		11,087	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
766	1802	STUB8663	0.000	0.000	2	8/10/2007		12/31/2013		11,085	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
767	1803	STUB8664	0.000	0.000	2	8/10/2007		12/31/2013		11,085	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
768	766	1522-01	0.246	0.382	720	7/13/2009	4/7/2010	4/7/2017	*	11,081	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
769	1314	7223-01	9.197	9.781	3088	12/17/2004	9/22/2007	9/22/2014		11,080	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
770	98	021F	18.517	20.809	12011	12/17/2004	3/3/2006	3/3/2013		11,077	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
771	464	114	28.960	32.925	20971	12/17/2004	1/22/2010	1/22/2017	*	11,059	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
772	1843	X6393	0.000	0.004	20	12/17/2004	9/7/2010	9/7/2017		11,057	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
773	1850	X6428	0.029	0.127	513	12/17/2004	9/2/2010	9/2/2017		11,056	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Medium
774	1048	220	23.096	23.150	279	12/17/2004	1/15/2007	1/15/2014		11,055	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
775	206	0604-03	0.399	0.600	1074	12/17/2004	5/4/2007	5/4/2014	*	11,054	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
776	1616	DREG5480	0.876	1.090	1144	12/17/2004	2/20/2007	2/20/2014		11,052	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
777	370	103	21.153	22.817	8551	12/17/2004	9/24/2011	9/24/2018		11,050	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
778	910	177B	6.674	7.042	1935	12/17/2004	10/20/2008	10/20/2015	*	11,047	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
779	1664	GCUST5842	1.485	1.745	1423	12/17/2004	8/24/2007	8/24/2014	*	11,044	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
780	1147	300B	477.586	478.100	2696	12/17/2004	5/4/2006	5/4/2013		11,041	ILI, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
781	1557	DREG4175	0.000	0.020	63	4/13/2006	12/2/2009	12/2/2016		11,039	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
782	1860	X6460	17.650	19.280	8732	12/17/2004	10/2/2012	10/2/2019		11,028	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
783	732	1501-01	0.593	0.918	2078	12/17/2004	7/31/2008	12/31/2014	*	11,015	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
784	337	1004-01	2.477	2.680	1088	12/17/2004	10/20/2008	10/20/2015		11,012	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
785	173	050A	16.209	16.346	719	4/28/2011		4/28/2021		11,011	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
786	1136	300B	275.236	280.034	27082	12/17/2004	4/23/2012	4/23/2019		11,011	ILI, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
787	601	124A	0.007	1.134	6049	12/17/2004	4/2/2010	4/2/2017		11,010	ILI, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
788	1675	GCUST5913	0.000	0.330	1749	12/17/2004	5/20/2011	5/20/2018		10,990	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
789	1809	STUB8706	0.000	0.000	27	10/10/2007		10/10/2017		10,989	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
790	41	021C	35.532	36.528	4766	12/17/2004	12/7/2010	12/31/2014	*	10,988	ECDA, ICDA, HYDRO, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	Yes	Low	Medium
791	1083	300A	159.048	160.139	5750	12/17/2004	9/18/2011	11/11/2016	*	10,983	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
792	920	1815-02	17.579	18.760	6160	12/17/2004	12/1/2006	12/1/2013		10,974	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
793	1828	X11102	0.002	0.020	71	6/25/2008	10/2/2012	10/2/2019		10,972	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
794	1859	X6458	0.002	0.020	74	6/25/2008	10/2/2012	10/2/2019		10,972	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
795	1847	X6428	0.174	0.178	21	12/17/2004	8/4/2011	8/4/2018		10,966	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Medium
796	1389	BD434	39.980	39.980	5	7/12/2010		12/31/2013		10,960	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
797	1163	3019-01	0.000	0.173	847	12/17/2004	1/14/2010	1/14/2017	*	10,957	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
798	249	0613-02	0.000	0.274	1449	12/17/2004	9/14/2009	9/14/2016		10,955	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
799	555	119C	3.467	3.640	966	12/17/2004	4/7/2010	4/7/2017		10,948	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
800	283	0619-05	1.184	1.261	405	10/5/2010	4/29/2012	4/29/2019		10,943	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
801	284	0619-05	0.737	0.924	992	10/5/2010	4/29/2012	4/29/2019		10,943	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
802	77	021E	75.314	75.545	1229	12/17/2004	12/11/2007	12/11/2014		10,940	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
803	809	1614-01	0.094	0.248	818	12/17/2004	12/4/2009	12/4/2016		10,936	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
804	385	1035-05	4.477	4.778	1591	12/21/2011		12/21/2021		10,934	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
805	386	1035-05	4.898	4.980	436	12/21/2011		12/21/2021		10,934	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
806	848	167	31.658	32.067	2203	12/17/2004	5/1/2012	5/1/2017		10,932	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
807	480	118A	3.759	3.848	503	12/17/2004	8/6/2007	8/6/2014		10,931	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
808	1264	402	25.000	25.766	4047	12/17/2004	11/12/2012	11/12/2019		10,929	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
809	968	187	33.222	33.315	486	8/19/2010		8/19/2020		10,927	HYDRO, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
810	1265	402	25.881	26.924	5522	12/17/2004	11/12/2012	12/17/2014	*	10,926	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
811	350	101	33.960	34.244	1456	12/17/2004	12/4/2008	12/4/2015	*	10,922	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Low

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Master HCA	ROUTE	Begin Milepoint	End Milepoint	Footage	Date HCA Identified	Master HCA Last Assessment Date	Master HCA Assessment Due Date	Multi Dates	Risk	Assessment Methods	EC THREAT	SCC THREAT	IC THREAT	MANUF. (SEAM) THREAT	MANUF. (BODY OF PIPE) THREAT	CONST. THREAT	TPD THREAT	WROF THREAT	EQUIP THREAT	IO THREAT
812	642	131	32.290	33.880	8487	12/17/2004	8/15/2011	12/31/2015	*	10,921	ILI, HYDRO, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	Yes	Low	Medium
813	1346	7226-02	0.000	0.242	1274	12/17/2004	9/22/2007	9/22/2014		10,916	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
814	740	1509-01	0.668	1.373	3724	6/26/2006	2/16/2007	2/16/2014	*	10,916	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
815	641	131	34.723	35.440	3789	12/17/2004	8/15/2011	8/15/2018		10,910	ILI, P&M	Yes	No	Yes	No	Stable	Stable	Yes	Yes	Low	Medium
816	1403	BD7046	0.000	0.016	86	6/13/2012		12/31/2015	*	10,902	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
817	349	101	33.840	33.960	2594	12/17/2004	12/4/2008	12/4/2015	*	10,902	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Low
818	1362	BD10473	0.000	0.010	50.53910733	11/14/2011		12/31/2015		10,893	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Low
819	830	1615-01	4.675	4.895	1161	12/17/2004	12/4/2009	12/4/2016	*	10,891	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
820	1591	DREG4868	0.092	0.183	461	12/17/2004	10/2/2012	10/2/2019		10,890	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
821	103	021F	14.029	14.204	1141	12/17/2004	3/3/2006	3/3/2013		10,889	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
822	53	021D	20.370	22.311	10193	12/17/2004	5/12/2009	5/12/2016	*	10,882	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
823	361	1023-03	0.000	0.000	2	11/30/2010		12/17/2019		10,882	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Low
824	1542	DREG10155	0.000	0.000	71	9/29/2011		12/31/2015		10,879	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
825	501	118A	40.712	41.029	1944	12/17/2004	8/6/2007	8/6/2014		10,875	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
826	18	0210-01	4.115	4.202	678	12/17/2004	10/1/2007	10/1/2014		10,874	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Low
827	207	0604-04	1.612	1.970	1891	12/17/2004	5/4/2007	5/4/2014		10,872	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
828	989	191-1	26.029	26.782	4090	12/17/2004	6/5/2006	6/5/2013		10,871	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
829	475	116	8.789	12.561	20135	12/17/2004	12/16/2010	12/16/2017		10,871	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
830	1356	8805-03	0.000	0.540	2820	12/17/2004	10/8/2009	10/8/2016	*	10,863	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
831	200	0600-01	0.000	0.086	455	12/17/2004	5/19/2010	5/19/2017		10,849	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
832	58	021D	30.525	30.830	1604	12/17/2004	11/13/2009	11/13/2016		10,845	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
833	812	1614-02	0.070	0.293	1179	12/17/2004	8/24/2007	8/24/2014		10,836	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
834	420	108	22.829	24.108	6759	12/17/2004	8/20/2012	8/20/2019		10,833	ILI, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
835	1129	300B	241.450	241.987	2880	11/14/2011		12/31/2015		10,832	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
836	1161	3017-01	1.089	1.377	1523	12/17/2004	6/5/2006	12/31/2013	*	10,832	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
837	779	1602-01	0.315	0.427	595	3/27/2012		3/27/2022		10,831	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
838	780	1602-01	0.448	0.700	1332	12/17/2004	12/4/2009	12/4/2016	*	10,831	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
839	1032	210B	10.511	11.426	5070	12/17/2004	5/21/2012	5/21/2019	*	10,829	ILI, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
840	851	172A	78.710	79.133	2242	12/17/2004	4/29/2012	4/29/2019		10,821	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Medium
841	1482	DF3385	0.000	0.000	10	12/17/2004	5/14/2007	5/14/2014		10,821	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
842	1562	DREG4185	0.000	0.040	188	3/8/2011	11/12/2012	11/12/2019		10,811	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
843	1001	196A	12.591	12.819	1207	11/24/2008		12/31/2013		10,807	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
844	736	1501-02	0.517	0.914	2070	12/17/2004	7/31/2008	7/31/2015	*	10,805	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
845	286	0619-05	0.000	0.051	245	10/5/2010	4/29/2012	4/29/2019		10,803	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
846	801	1611-03	1.278	2.421	6065	12/17/2004	12/4/2009	12/4/2016		10,799	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
847	204	0604-01	2.692	3.594	4762	12/17/2004	5/4/2007	5/4/2014	*	10,799	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
848	1462	DF3244	0.000	0.002	8	8/24/2007	11/11/2011	11/11/2018		10,795	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
849	291	0630-01	1.372	2.792	7262	12/17/2004	12/16/2010	12/16/2017		10,784	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	No	Low	Medium
850	46	021C	47.230	47.597	1957	12/17/2004	12/7/2010	12/7/2017		10,782	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
851	1348	7227-01	4.025	4.625	3155	12/17/2004	12/13/2010	12/13/2017		10,781	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
852	277	0618-03	1.660	1.797	729	12/17/2004	7/26/2008	7/26/2015		10,778	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
853	635	1306-01	4.003	4.137	707	12/17/2004	12/7/2010	12/7/2017		10,774	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
854	481	118A	2.752	2.875	667	12/17/2004	8/6/2007	8/6/2014		10,770	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
855	823	1615-01	16.806	19.060	11915	12/17/2004	12/4/2009	12/4/2016	*	10,766	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
856	1098	300A	372.271	373.678	7452	1/3/2006	1/24/2011	11/11/2016	*	10,766	ILI, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
857	153	0405-01	14.833	14.970	721	8/16/2010		8/16/2020		10,760	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
858	738	1503-01	0.000	0.270	1433	12/17/2004	7/31/2008	12/31/2014	*	10,758	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
859	756	1519-01	2.134	2.291	836	9/22/2009		9/22/2019		10,758	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
860	1661	GCUST5835	0.048	0.230	974	11/21/2011	6/13/2012	6/13/2019		10,757	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
861	1861	X6461	0.000	0.010	54	7/21/2008	10/2/2012	10/2/2019		10,757	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
862	259	0617-06	7.950	8.207	1357	10/29/2007	4/7/2010	4/7/2017	*	10,755	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
863	1425	BD9499	181.420	181.420	22	2/18/2011		12/31/2014		10,753	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
864	1426	BD9500	181.420	181.420	7	2/18/2011		12/31/2014		10,753	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
865	88	021E	115.000	117.456	12905	12/17/2004	3/3/2006	3/3/2013	*	10,742	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
866	1865	X6485	3.860	3.860	7	12/17/2004	7/19/2011	7/19/2018		10,742	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
867	228	0608-01	3.335	4.549	6414	12/17/2004	12/4/2009	12/4/2016	*	10,741	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
868	1066	2408-05	4.930	5.150	1197	10/11/2011		10/11/2021	*	10,739	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
869	990	191-1	20.839	24.306	21628	12/17/2004	6/5/2006	6/5/2013	*	10,739	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
870	1457	DF3217	0.000	0.000	45	12/17/2004	11/3/2011	11/3/2018		10,739	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Low
871	484	118A	0.400	0.788	2633	12/17/2004	8/6/2007	8/6/2014		10,739	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
872	104	021F	13.607	13.874	1418	10/8/2008		10/8/2018	*	10,736	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
873	1842	X6387	0.000	0.000	26	2/1/2012		12/31/2015		10,733	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	Yes	Low	Low
874	1854	X6434	0.000	0.000	48	2/1/2012		12/31/2014		10,733	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	Yes	Low	Low
875	307	0807-01	0.000	0.055	305	3/8/2011	12/4/2012	12/4/2019		10,732	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
876	1140	300B	414.773	415.413	3169	12/17/2004	1/15/2011	1/15/2018	*	10,730	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
877	933	1816-01	17.969	18.250	1481	12/17/2004	11/8/2006	11/8/2013	*	10,720	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
878	216	0607-01	3.547	5.079	7910	12/17/2004	12/4/2009	12/4/2016		10,719	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
879	1369	BD10836	20.720	20.720	39	11/8/2010	11/12/2012	11/12/2019		10,718	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
880	1370	BD10837	20.720	20.720	9	11/8/2010	11/12/2012	11/12/2019		10,718	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
881	1371	BD10838	20.720	20.720	9	11/8/2010		12/17/2019		10,718	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
882	1280	7204-01	1.890	1.960	381	12/17/2004	8/6/2007	8/6/2014		10,712	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
883	90	021E	119.180	120.030	4485	12/17/2004	3/3/2006	3/3/2013		10,711	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
884	705	142N	13.900	14.050	1436	12/17/2004	5/3/2007	5/3/2014		10,710	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Low
885	966	186	24.090	24.268	961	11/22/2008	8/6/2011	8/6/2018		10,710	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
886	1793	STUB8271	0.000	0.001	3	12/17/2004	5/4/2007	5/4/2014		10,703	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
887	66	021E	63.478	63.945	2277	12/17/2004	3/11/2011	3/11/2018		10,699	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
888	1200	316F	0.854	0.983	682	11/16/2010		11/16/2020		10,694	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
889	1815	STUB8904	0.000	0.000	3	1/30/2006	4/18/2011	12/31/2015		10,689	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
890	155	0405-01	16.794	17.232	2325	12/17/2004	12/7/2010	12/7/2017		10,675	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
891	897	177A	84.392	84.557	869	11/3/2010	4/25/2012	4/25/2019		10,664	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
892	1566	DREG4200	0.000	0.250	172	6/8/2011	11/3/2011	11/3/2018		10,659	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Master HCA	ROUTE	Begin Milepoint	End Milepoint	Footage	Date HCA Identified	Master HCA Last Assessment Date	Master HCA Assessment Due Date	Multi Dates	Risk	Assessment Methods	EC THREAT	SCC THREAT	IC THREAT	MANUF. (SEAM) THREAT	MANUF. (BODY OF PIPE) THREAT	CONST. THREAT	TPD THREAT	WROF THREAT	EQUIP THREAT	IO THREAT
893	70	021E	66.755	67.077	1679	3/27/2012		3/27/2022		10,655	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
894	1139	300B	384.283	384.833	2959	11/1/2010	6/25/2011	6/28/2018	*	10,646	ILI, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
895	530	118B	13.486	14.104	3323	12/17/2004	12/1/2011	12/1/2018		10,644	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
896	42	021C	36.736	38.170	7700	12/17/2004	12/7/2010	12/31/2014	*	10,643	ECDA, ICDA, HYDRO, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	Yes	Low	Medium
897	55	021D	30.113	30.357	1371	12/17/2004	11/13/2009	11/13/2016		10,642	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
898	559	1202-03	0.314	0.390	403	9/29/2011		12/31/2014		10,638	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
899	163	0407-04	0.000	0.030	135	12/17/2004	10/31/2006	10/31/2013		10,630	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
900	870	173	6.799	6.912	594	10/18/2007	6/26/2012	6/26/2019		10,618	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
901	338	101	3.301	3.582	1656	11/18/2010	6/7/2011	2/15/2018	*	10,609	ILI, P&M	Yes	No	Yes	No	Stable	Stable	Yes	Yes	Low	Medium
902	352	101	38.316	38.733	3186	12/17/2004	12/4/2008	12/4/2015		10,604	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Low
903	1465	DF3252	0.000	0.000	6	6/8/2011	11/3/2011	11/3/2018		10,601	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
904	1492	DF3429	0.000	0.010	55	12/17/2004	11/8/2006	12/31/2013		10,600	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
905	262	0617-06	8.350	9.929	8539	12/17/2004	4/7/2010	4/7/2017		10,597	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
906	1025	210B	19.439	19.468	158	12/17/2004	5/21/2012	5/21/2019		10,597	ILI, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
907	443	109	0.000	0.263	1224	12/17/2004	3/23/2009	3/23/2016		10,596	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
908	681	136	12.800	12.900	524	12/17/2004	9/17/2008	9/17/2015		10,595	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
909	718	142S	9.324	9.401	405	9/8/2010		9/8/2020		10,584	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
910	734	1501-02	3.382	3.524	753	12/17/2004	7/31/2008	7/31/2015		10,584	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
911	797	1611-01	0.741	0.851	576	12/17/2004	12/4/2009	12/4/2016		10,582	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
912	1476	DF3368	0.000	0.000	6	11/21/2011		11/21/2021		10,580	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
913	1179	301G	0.000	0.120	1071	12/17/2004	6/21/2011	6/21/2018		10,571	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Medium
914	1173	301C	14.145	14.610	2483	12/17/2004	6/21/2011	6/21/2018	*	10,569	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
915	1061	2408-05	3.206	3.325	627	6/21/2012		6/21/2022		10,569	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
916	227	0608-01	2.274	2.862	3103	12/17/2004	12/4/2009	12/4/2016	*	10,562	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
917	293	0639-01	0.010	2.780	14701	12/17/2004	12/4/2009	12/4/2016		10,558	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
918	1327	7224-07	0.000	1.695	8951	12/17/2004	9/22/2007	9/22/2014		10,552	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
919	1333	7224-12	0.000	0.090	497	12/17/2004	9/22/2007	9/22/2014		10,552	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
920	157	0405-01	18.184	18.451	1410	12/17/2004	12/7/2010	12/7/2017		10,550	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
921	264	0617-06	10.679	10.795	615	12/17/2004	4/7/2010	4/7/2017		10,547	ECDA, ICDA, P&M	Yes	No	Yes	No	Stable	Stable	Yes	No	Low	Medium
922	254	0617-06	20.582	20.669	461	12/17/2004	4/7/2010	4/7/2017		10,546	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
923	1792	STUB8270	0.000	0.000	1	12/17/2004	5/4/2007	5/4/2014		10,543	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
924	1530	DFDS3614	0.000	0.010	35	12/17/2004	12/1/2010	12/1/2017		10,540	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
925	1633	DRIP7975	0.000	0.007	53	12/17/2004	7/19/2011	12/31/2014		10,539	ECDA, ICDA, HYDRO, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	Yes	Low	Medium
926	308	0807-01	0.338	0.460	646	3/8/2011	12/4/2012	12/4/2019		10,528	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
927	824	1615-01	16.418	16.685	1410	12/17/2004	12/4/2009	12/4/2016		10,525	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
928	1172	301C	13.758	13.867	585	2/21/2012		2/21/2022		10,525	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
929	1062	2408-05	2.833	3.137	1603	6/21/2012		6/21/2022		10,521	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
930	1681	GCUST5955	0.000	0.700	3696	12/17/2004	12/13/2010	12/13/2017		10,518	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
931	341	101	0.000	0.330	1656	12/17/2004	11/3/2011	11/3/2018		10,518	ILI, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
932	300	0651-01	0.803	1.389	3072	12/17/2004	4/7/2010	4/7/2017		10,512	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
933	99	021F	17.020	18.278	4379	12/17/2004	3/3/2006	3/3/2013	*	10,512	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
934	1534	DFDS3633	0.000	0.000	29	12/17/2004	10/8/2009	12/31/2015		10,508	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Low
935	62	021E	58.470	59.268	4303	12/17/2004	3/11/2011	3/11/2018		10,496	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
936	319	0821-01	0.390	1.200	4287	12/17/2004	12/2/2009	12/2/2016		10,494	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
937	1752	STUB6113	0.000	0.000	12	12/17/2004	4/7/2010	4/7/2017		10,491	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
938	1665	GCUST5842	0.548	0.703	815	12/17/2004	8/24/2007	8/24/2014		10,486	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
939	1588	DREG4738	0.000	0.380	1985	12/17/2004	10/8/2009	10/8/2016	*	10,481	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
940	115	021G	10.168	12.414	11957	12/17/2004	12/7/2010	12/7/2017	*	10,479	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Medium
941	1176	301F	3.098	3.281	961	12/17/2004	6/21/2011	6/21/2018		10,475	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
942	1332	7224-12	0.591	0.700	578	10/29/2010	4/27/2012	4/27/2019		10,471	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
943	1572	DREG4325	0.060	0.250	1028	12/17/2004	8/24/2007	8/24/2014		10,466	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
944	425	108	48.502	49.030	2936	12/17/2004	8/24/2007	12/31/2013	*	10,462	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
945	353	101	38.854	39.737	6756	12/17/2004	12/4/2008	12/4/2015	*	10,462	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Low
946	878	173-1	1.457	1.490	174	12/19/2008		12/19/2018		10,461	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
947	1077	3009-01	0.766	0.978	1126	12/17/2004	1/22/2010	1/22/2017		10,456	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
948	873	173	10.231	10.410	888	12/17/2004	3/8/2007	3/8/2014		10,453	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
949	658	132	33.467	33.974	2679	12/17/2004	4/22/2007	4/22/2014	*	10,451	ILI, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
950	654	132	29.086	30.344	7538	12/17/2004	4/22/2007	4/22/2014	*	10,441	ILI, ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
951	566	1202-21	0.000	0.100	572	12/17/2004	12/1/2010	12/1/2017		10,441	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
952	522	118B	2.258	2.515	1361	12/17/2004	12/1/2011	12/1/2018		10,437	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
953	523	118B	3.581	3.780	1130	12/17/2004	12/1/2011	12/1/2018		10,437	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
954	1078	300A	121.872	122.679	4297	12/17/2004	11/11/2011	11/11/2016	*	10,433	ECDA, SCCDA, P&M	Yes	Yes	No	No	Stable	Stable	Yes	Yes	Low	Medium
955	1513	DF7708	0.000	0.010	17	12/17/2004	6/5/2006	6/5/2013		10,432	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
956	919	1815-02	7.307	7.422	599	1/28/2009		1/28/2019		10,428	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
957	1338	7225-02	1.403	1.837	2294	12/17/2004	9/22/2007	9/22/2014	*	10,422	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
958	82	021E	97.074	97.371	1700	12/17/2004	1/14/2012	1/14/2019		10,411	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
959	1574	DREG4327	0.525	1.288	4027	12/17/2004	12/4/2009	12/4/2016		10,409	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
960	649	132	0.000	0.799	4222	12/17/2004	10/8/2009	10/8/2016	*	10,408	ILI, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
961	591	123	0.000	0.384	2209	12/17/2004	2/14/2007	12/31/2013	*	10,398	ECDA, ICDA, HYDRO, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	No	Low	Medium
962	37	021B	1.890	2.207	2655	12/17/2004	12/7/2010	12/7/2017		10,398	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
963	1120	300B	143.246	144.240	5352	12/17/2004	5/3/2007	5/3/2014	*	10,398	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
964	1123	300B	152.732	153.482	3965	12/17/2004	10/11/2011	10/11/2018		10,395	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Medium
965	205	0604-03	0.287	0.380	516	12/17/2004	5/4/2007	5/4/2014		10,392	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
966	611	124B	9.736	10.454	3297	12/17/2004	3/10/2007	3/10/2014	*	10,391	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
967	955	1818-01	13.199	13.600	2150	12/17/2004	11/8/2006	11/8/2013		10,390	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
968	355	101	41.990	42.170	1005	12/17/2004	12/4/2008	12/4/2015		10,383	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
969	961	181B	4.083	4.339	1367	12/17/2004	11/8/2006	11/8/2013		10,381	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
970	493	118A	17.431	17.629	1037	2/2/2006	12/1/2011	12/1/2018		10,376	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
971	79	021E	80.683	80.897	1141	12/17/2004	12/11/2007	12/11/2014		10,374	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
972	1300	7222-01	13.691	13.764	382	2/9/2006	4/27/2012	4/27/2019		10,372	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
973	22	0211-01	0.170	0.445	1540	12/17/2004	11/3/2011	11/3/2016	*	10,370	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Master HCA	ROUTE	Begin Milepoint	End Milepoint	Footage	Date HCA Identified	Master HCA Last Assessment Date	Master HCA Assessment Due Date	Multi Dates	Risk	Assessment Methods	EC THREAT	SCC THREAT	IC THREAT	MANUF. (SEAM) THREAT	MANUF. (BODY OF PIPE) THREAT	CONST. THREAT	TPD THREAT	WROF THREAT	EQUIP THREAT	IO THREAT
974	1340	7225-02	1.965	2.075	584	12/17/2004	9/22/2007	9/22/2014		10,337	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
975	1555	DREG4088	0.000	0.809	4202	12/17/2004	4/7/2010	4/7/2017		10,337	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
976	720	142S-1	0.000	0.220	1184	12/17/2004	5/3/2007	5/3/2014		10,334	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Low
977	1137	300B	286.316	286.918	3170	12/17/2004	4/23/2012	4/23/2019		10,333	ILI, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
978	336	1004-01	4.685	4.753	354	8/19/2009		12/31/2013		10,325	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
979	339	101	4.311	7.220	16389	12/17/2004	12/4/2008	12/4/2015	*	10,325	ILI, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
980	154	0405-01	15.020	15.284	1390	12/17/2004	12/7/2010	12/7/2017		10,316	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
981	156	0405-01	17.527	17.720	1029	12/17/2004	12/7/2010	12/7/2017		10,316	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
982	1464	DF3250	0.000	0.003	16	12/17/2004	11/3/2011	11/3/2018		10,314	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Low
983	1126	300B	198.545	199.126	3015	12/17/2004	11/11/2011	11/11/2016		10,314	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	No	Low	Medium
984	1031	210B	13.717	13.770	295	12/17/2004	5/21/2012	5/21/2019		10,310	ILI, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
985	1647	GCUST5774	0.000	0.572	3034	12/17/2004	12/4/2009	12/4/2016		10,306	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
986	1772	STUB6320	0.000	0.000	18	9/20/2008	12/13/2010	12/13/2017		10,304	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
987	1339	7225-02	0.745	1.279	2817	12/17/2004	9/22/2007	9/22/2014		10,301	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
988	244	0613-01	0.020	0.132	605	9/17/2009	4/29/2012	4/29/2019		10,295	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
989	554	119C	0.000	2.754	14563	12/17/2004	4/7/2010	4/7/2017		10,294	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
990	458	111A	19.518	20.018	2613	12/17/2004	7/19/2012	12/31/2015	*	10,292	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	No	Low	Medium
991	1862	X6463	0.000	0.010	50	12/17/2004	12/4/2009	12/4/2016		10,281	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
992	1138	300B	353.537	354.312	4158	12/17/2004	7/23/2011	11/11/2016	*	10,277	ILI, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
993	1288	7207-01	0.000	0.629	3329	12/17/2004	8/3/2009	8/3/2016	*	10,269	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
994	1644	GCUST5770	0.000	0.009	55	12/17/2004	5/4/2007	12/31/2014		10,259	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
995	785	1607-01	0.840	1.016	937	12/17/2004	8/24/2007	12/31/2013	*	10,253	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
996	1407	BD79	0.000	0.003	15	11/14/2010	11/3/2011	11/3/2018		10,252	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Low
997	852	172A	74.748	78.550	20123	12/17/2004	4/29/2012	4/29/2019		10,250	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
998	882	173-20	12.345	12.480	646	12/17/2004	3/8/2007	3/8/2014		10,250	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
999	190	057A-MD1	0.661	1.027	1942	12/17/2004	7/25/2012	7/25/2017	*	10,246	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
1000	923	1815-02	4.037	4.172	710	12/17/2004	12/1/2006	12/1/2013		10,245	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1001	242	0611-09	0.000	0.066	368	12/17/2004	12/4/2009	12/31/2013		10,244	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
1002	285	0619-05	0.181	0.256	400	10/5/2010	4/29/2012	4/29/2019		10,241	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1003	113	021G	13.814	14.011	1164	12/17/2004	12/7/2010	12/7/2017		10,233	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Medium
1004	782	1603-01	0.193	0.367	915	12/17/2004	8/24/2007	8/24/2014		10,232	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1005	241	0611-08	0.000	0.060	326	12/17/2004	12/4/2009	12/31/2013		10,228	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
1006	1605	DREG5267	0.000	0.000	50	12/17/2004	1/8/2007	1/8/2014		10,226	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1007	1475	DF3334	0.000	0.000	5	12/17/2004	8/6/2007	8/6/2014		10,221	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1008	1686	GCUST6976	0.000	0.023	120	10/4/2005	11/3/2011	11/3/2018		10,219	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
1009	616	124B	21.203	21.610	2208	12/17/2004	3/10/2007	3/10/2014		10,219	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
1010	595	123	5.419	5.738	1684	12/17/2004	2/14/2007	12/31/2013		10,218	ECDA, ICDA, HYDRO, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	No	Low	Medium
1011	1015	209	3.917	3.994	409	12/17/2004	8/22/2012	8/22/2019		10,217	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1012	1380	BD305	3.560	3.560	7	11/14/2010	11/3/2011	11/3/2018		10,212	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Low
1013	908	177A	190.260	190.553	1546	12/17/2004	10/20/2008	10/20/2015		10,211	ECDA, P&M	Yes	No	No	Stable	Stable	Unstable	Yes	Yes	Low	Medium
1014	342	101	9.747	9.806	327	12/17/2004	11/3/2011	11/3/2018	*	10,206	ILI, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
1015	874	173	11.729	11.789	302	11/22/2008	6/26/2012	6/26/2019		10,205	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1016	178	050A	43.998	45.050	2818	12/17/2004	9/23/2008	9/23/2015	*	10,205	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1017	648	132	18.070	20.053	11323	12/17/2004	10/8/2009	10/8/2016	*	10,202	ILI, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Low
1018	575	1209-06	4.189	4.330	745	5/19/2010	12/1/2010	12/1/2017		10,198	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1019	1710	STUB10220	0.000	0.000	2	12/17/2004	2/20/2007	2/20/2014		10,197	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1020	1166	301A	1.720	2.245	2728	12/17/2004	7/18/2009	7/18/2014	*	10,196	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1021	722	147	1.806	3.570	9404	12/17/2004	10/8/2009	10/8/2016	*	10,194	ILI, ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Low
1022	476	118-1	0.000	0.031	165	12/17/2004	8/6/2007	8/6/2014		10,192	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1023	1723	STUB11123	0.000	0.009	48	5/2/2012	2/15/2007	5/2/2022		10,191	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
1024	1866	X6486	3.880	3.880	9	12/17/2004	8/31/2010	8/31/2017		10,179	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1025	229	0608-01	4.582	4.654	382	12/17/2004	12/4/2009	12/4/2016		10,176	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1026	1130	300B	242.655	243.089	2576	9/4/2009	11/11/2011	12/31/2014	*	10,174	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
1027	544	119A-2	13.120	14.100	4787	12/17/2004	4/7/2010	4/7/2017		10,172	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1028	750	1518-01	0.577	1.393	4325	10/4/2005	4/4/2009	4/4/2016	*	10,169	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
1029	1563	DREG4196	0.000	0.011	105	12/19/2008	11/3/2011	11/3/2018		10,168	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Low
1030	892	177A	25.478	25.754	1456	12/17/2004	6/7/2007	6/7/2014		10,166	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1031	639	131	42.123	42.601	2444	12/17/2004	8/15/2011	8/15/2018		10,162	ILI, SCCDA, P&M	Yes	Yes	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
1032	1282	7205-01	1.738	1.824	454	11/10/2010		11/10/2020		10,159	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1033	134	021H	7.980	8.388	2118	12/17/2004	12/7/2010	12/7/2017	*	10,158	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1034	20	0210-01	1.885	2.380	2617	12/17/2004	3/23/2009	3/23/2016	*	10,158	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Low
1035	927	1816-01	1.337	2.439	5779	12/17/2004	8/23/2011	8/23/2018	*	10,156	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1036	1012	202	18.400	18.473	499	7/14/2010	3/29/2011	3/29/2018		10,153	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1037	1454	DF10822	0.000	0.000	3.79880807	11/17/2011		12/31/2015	*	10,152	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
1038	324	0833-01	4.793	4.875	432	11/19/2010		11/19/2020		10,151	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1039	1848	X6428	0.166	0.172	28	12/17/2004	7/14/2010	9/2/2017		10,147	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Medium
1040	1849	X6428	0.129	0.166	194	12/17/2004	7/14/2010	9/2/2017		10,147	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Medium
1041	1054	2403-12	0.110	0.296	993	3/14/2006	2/16/2010	2/16/2017		10,138	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1042	545	119A-3	0.000	0.167	739	3/13/2007		3/13/2017		10,137	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1043	657	132	32.740	33.141	2149	12/20/2008		10/20/2018	*	10,136	ILI, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
1044	1808	STUB8704	0.000	0.000	2	10/10/2007	6/26/2012	6/26/2019		10,129	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1045	365	103	26.582	26.896	1657	12/17/2004	9/24/2011	9/24/2018		10,125	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1046	1609	DREG5419	0.460	0.583	613	12/17/2004	6/21/2011	6/21/2018		10,122	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1047	1795	STUB8419	0.000	0.000	4	12/23/2008	7/25/2012	7/25/2019		10,120	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	No	Low	Medium
1048	821	1614-13	0.789	0.860	370	3/15/2006	12/4/2009	12/4/2016		10,119	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1049	1076	3009-01	0.117	0.494	2203	12/17/2004	1/22/2010	1/22/2017		10,119	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1050	1174	301F	7.122	7.940	4335	12/17/2004	6/21/2011	6/21/2018		10,119	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
1051	131	021H	7.059	7.090	1122	9/18/2009		9/18/2019		10,115	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1052	1193	307B	14.730	15.800	5713	12/17/2004	6/18/2011	6/18/2018		10,113	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1053	571	1209-01	4.900	5.278	1974	12/17/2004	12/1/2010	12/1/2017		10,105	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	No	Low	Medium
1054	474	116	8.589	8.760	1771	12/17/2004	12/16/2010	12/16/2017		10,100	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Master HCA	ROUTE	Begin Milepoint	End Milepoint	Footage	Date HCA Identified	Master HCA Last Assessment Date	Master HCA Assessment Due Date	Multi Dates	Risk	Assessment Methods	EC THREAT	SCC THREAT	IC THREAT	MANUF. (SEAM) THREAT	MANUF. (BODY OF PIPE) THREAT	CONST. THREAT	TPD THREAT	WROF THREAT	EQUIP THREAT	IO THREAT
1055	1010	202	16.748	17.054	1442	12/3/2008	3/29/2011	3/29/2018		10,095	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1056	380	1035-05	1.130	1.767	3373	12/17/2004	2/20/2007	2/20/2014	*	10,094	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1057	1589	DREG4793	0.000	0.110	587	12/17/2004	5/14/2007	5/14/2014		10,094	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1058	1186	303	24.708	25.535	4310	12/17/2004	4/21/2008	4/21/2015	*	10,092	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1059	907	177A	188.271	188.526	1345	12/17/2004	10/20/2008	10/20/2015		10,083	ECDA, P&M	Yes	No	No	Stable	Stable	Unstable	Yes	Yes	Low	Medium
1060	546	119B	0.000	0.879	6163	12/17/2004	2/1/2007	2/15/2014	*	10,079	ILI, ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
1061	572	1209-01	5.398	5.914	2699	12/17/2004	12/1/2010	12/1/2017		10,078	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	No	Low	Medium
1062	943	1816-50	1.050	1.050	366	12/17/2004	11/8/2006	11/8/2013		10,077	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1063	1272	402	37.446	37.588	744	12/17/2004	2/20/2007	2/20/2014		10,068	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
1064	614	124B	20.100	20.249	977	12/17/2004	3/10/2007	3/10/2014		10,065	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
1065	321	0824-01	0.020	0.544	2761	12/17/2004	12/2/2009	12/2/2016		10,065	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1066	1360	BD10471	0.000	0.005	26.59598923	11/14/2011		12/31/2015		10,064	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Low
1067	1361	BD10472	0.000	0.002	12.84902364	11/14/2011		12/31/2015		10,064	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Low
1068	805	1611-04	0.000	0.690	3654	12/17/2004	12/4/2009	12/4/2016		10,062	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1069	1467	DF3255	0.000	0.000	18	12/17/2004	11/3/2011	11/3/2018		10,055	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Low
1070	1543	DREG10821	0.000	0.000	18.57195452	11/17/2011		12/31/2015	*	10,053	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
1071	446	109	25.768	26.069	1560	10/5/2011		12/31/2014	*	10,051	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Low
1072	1205	331B	4.366	4.638	1444	12/17/2004	12/10/2010	12/10/2017		10,050	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1073	1335	7225-01	0.189	1.172	5333	12/17/2004	9/22/2007	9/22/2014		10,040	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1074	1151	3010-01	0.129	0.220	488	12/17/2004	6/5/2006	6/5/2013		10,029	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1075	1152	3010-01	0.531	0.650	643	12/17/2004	6/5/2006	6/5/2013		10,029	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1076	1145	300B	474.674	476.002	7621	12/17/2004	5/4/2006	5/4/2013		10,028	ILI, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1077	1806	STUB8695	0.000	0.000	3	3/14/2006	8/24/2007	8/24/2014		10,028	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1078	1807	STUB8696	0.000	0.000	5	3/14/2006	3/28/2007	3/28/2014		10,028	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1079	1762	STUB6244	0.000	0.010	48	12/17/2004	9/20/2007	9/20/2014		10,018	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1080	778	1602-01	0.000	0.053	280	12/17/2004	12/4/2009	12/4/2016		10,018	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1081	1685	GCUST5970	0.000	0.488	2598	12/17/2004	10/6/2012	10/6/2019		10,018	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1082	1506	DF6867	0.000	0.001	4	12/17/2004	10/2/2012	10/2/2019		10,013	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1083	182	057A	15.369	16.517	6417	12/17/2004	12/6/2011	12/6/2018	*	10,004	ILI, SCCDA, P&M	Yes	Yes	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
1084	304	0805-01	1.170	2.240	5647	12/17/2004	10/8/2009	10/8/2016		10,003	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1085	1357	BD10064	0.000	0.020	106	9/28/2010	6/5/2012	6/5/2017		9,999	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1086	1358	BD10065	0.000	0.018	93	9/28/2010	6/5/2012	6/5/2017		9,999	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1087	1133	300B	243.701	245.860	11340	12/17/2004	5/3/2007	5/3/2014	*	9,998	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1088	1079	300A	0.286	0.944	3478	12/17/2004	11/11/2011	11/11/2016	*	9,995	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1089	363	1027-01	4.736	5.601	4230	12/17/2004	3/16/2007	3/16/2014		9,993	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1090	217	0607-01	5.240	5.411	884	10/30/2007	12/4/2009	12/4/2016	*	9,989	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1091	36	021B	0.523	0.958	2296	12/17/2004	12/7/2010	12/7/2017		9,988	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1092	279	0618-03	1.134	1.471	1780	12/17/2004	7/26/2008	7/26/2015		9,986	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1093	1401	BD686	9.960	9.960	43	11/8/2010	11/12/2012	11/12/2019		9,985	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
1094	1708	STUB10104	0.000	0.000	3	12/17/2004	3/3/2006	3/3/2013		9,975	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1095	1707	STUB10105	137.289	137.290	3	12/17/2004	3/3/2006	3/3/2013		9,975	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1096	177	050A	37.860	38.440	2978	12/17/2004	9/23/2008	9/23/2015	*	9,974	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1097	502	118A	41.837	42.265	1323	12/17/2004	8/6/2007	8/6/2014		9,974	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1098	1405	BD75	14.230	14.230	26	11/14/2010	11/3/2011	11/3/2018		9,973	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Low
1099	1132	300B	246.471	248.830	12434	12/17/2004	5/3/2007	5/3/2014	*	9,959	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
1100	1571	DREG4310	0.504	0.614	577	10/21/2011		10/21/2021		9,958	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1101	1649	GCUST5779	0.000	0.020	127	12/17/2004	5/3/2007	5/3/2014		9,958	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1102	1537	DFDS3675	0.000	0.000	67	4/13/2006	12/2/2009	12/2/2016	*	9,957	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1103	1538	DFDS3684	0.000	0.004	21	4/13/2006	12/2/2009	12/2/2016		9,957	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1104	906	177A	183.484	183.755	1428	12/17/2004	6/7/2007	6/7/2014		9,956	ECDA, P&M	Yes	No	No	Stable	Stable	Unstable	Yes	Yes	Low	Medium
1105	1606	DREG5282	0.000	0.113	609	7/24/2007	5/19/2010	5/19/2017		9,956	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1106	1279	7202-01	0.000	0.536	2833	12/17/2004	12/1/2011	12/1/2018		9,952	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1107	184	057A	8.980	9.404	2225	6/24/2009	7/25/2012	7/25/2017	*	9,944	ECDA, ICDA, SCCDA, P&M	Yes	Yes	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
1108	594	123	3.874	4.007	703	9/22/2009		12/31/2013		9,938	ECDA, ICDA, HYDRO, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	No	Low	Medium
1109	1017	210A	24.546	24.774	1220	12/17/2004	1/8/2007	12/31/2013		9,935	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
1110	1278	6635-02	0.000	0.128	685	4/12/2006	5/23/2012	5/23/2019		9,935	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Low
1111	1436	DCUST1498	0.000	0.000	1951	12/17/2004	12/1/2010	12/1/2017		9,935	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1112	226	0608-01	2.983	3.178	1026	12/17/2004	12/4/2009	12/4/2016		9,921	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1113	1719	STUB11083	0.000	0.006	33	7/9/2012		7/9/2022		9,919	ILI, ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1114	1119	300B	0.155	0.835	3791.246675	12/17/2004	11/11/2011	11/11/2016	*	9,913	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1115	393	105B	0.000	0.500	2649	12/17/2004	10/1/2007	10/1/2014	*	9,908	ILI, ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1116	1216	400	259.635	260.624	5237	12/17/2004	11/13/2010	11/13/2015	*	9,899	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1117	962	181B	5.792	6.000	1135	12/17/2004	11/8/2006	11/8/2013	*	9,895	ECDA, HYDRO, P&M	Yes	No	No	Unstable	No	No	Yes	Yes	Low	Medium
1118	1158	3017-01	3.044	3.194	773	12/17/2004	6/5/2006	6/5/2013		9,894	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1119	1871	X6538	0.000	0.000	8	10/19/2011		6/21/2018		9,887	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1120	707	142N	6.350	6.766	2233	12/17/2004	5/3/2007	5/3/2014	*	9,884	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
1121	1811	STUB8794	0.000	0.001	4	12/17/2004	9/7/2010	9/7/2017		9,883	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1122	1095	300A	276.809	278.350	8193	12/17/2004	3/29/2012	3/29/2019	*	9,881	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1123	1487	DF3423	0.000	0.002	10	12/17/2004	12/1/2006	12/1/2013		9,879	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1124	238	0611-05	0.000	0.120	639	12/17/2004	12/4/2009	12/4/2016		9,879	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1125	1488	DF3426	8.890	9.203	1880	12/17/2004	11/8/2006	11/8/2013		9,875	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
1126	1489	DF3426	8.668	8.765	667	2/16/2006	4/28/2010	4/28/2017		9,875	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
1127	1034	210C	28.549	32.110	18854	12/17/2004	1/8/2007	1/8/2014		9,873	ILI, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1128	1821	STUB9935	0.412	0.412	1	12/18/2008	6/13/2012	6/13/2019		9,853	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1129	1230	401	343.336	344.802	7658	12/17/2004	7/16/2012	7/16/2017	*	9,852	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1130	1251	402	9.541	9.716	929	12/17/2004	2/20/2007	12/31/2015		9,852	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
1131	512	118A	74.169	74.448	1475	12/17/2004	8/6/2007	8/6/2014	*	9,851	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1132	1631	DRIP5690	0.000	0.008	44	2/17/2009	12/18/2010	12/18/2017		9,850	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1133	1292	7221-10	11.291	12.079	4239	12/17/2004	9/22/2009	9/22/2016	*	9,850	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1134	1653	GCUST5814	0.000	0.100	528	12/17/2004	10/8/2009	10/8/2016		9,846	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1135	822	1614-13	0.240	0.337	509	12/17/2004	8/24/2007	8/24/2014		9,845	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Master HCA	ROUTE	Begin Milepoint	End Milepoint	Footage	Date HCA Identified	Master HCA Last Assessment Date	Master HCA Assessment Due Date	Multi Dates	Risk	Assessment Methods	EC THREAT	SCC THREAT	IC THREAT	MANUF. (SEAM) THREAT	MANUF. (BODY OF PIPE) THREAT	CONST. THREAT	TPD THREAT	WROF THREAT	EQUIP THREAT	IO THREAT
1136	799	1611-03	3.828	4.300	2483	12/17/2004	12/4/2009	12/4/2016		9,844	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1137	222	0607-01	1.753	1.978	1214	12/17/2004	12/4/2009	12/4/2016		9,842	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1138	589	1217-01	2.910	3.000	893	12/17/2004	12/1/2011	12/1/2018		9,841	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1139	1608	DREG5419	0.848	1.000	824	12/17/2004	6/21/2011	6/21/2018		9,840	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1140	1559	DREG4177	0.000	0.010	48	12/17/2004	12/2/2009	12/2/2016		9,840	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1141	1352	7227-01	1.531	1.780	1312	12/17/2004	12/13/2010	12/13/2017		9,838	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1142	1564	DREG4197	0.000	0.006	30	12/17/2004	11/3/2011	11/3/2018		9,834	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Low
1143	706	142N	5.534	6.037	2649	10/8/2007	5/23/2012	5/23/2019		9,829	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
1144	1778	STUB7555	0.000	0.000	1	12/17/2004	8/23/2011	8/23/2018		9,829	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1145	396	105N	6.910	11.997	29809	12/17/2004	11/4/2012	11/4/2019		9,828	ILI, ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
1146	1619	DREG5496	0.030	1.511	7987	12/17/2004	12/16/2010	12/16/2017		9,827	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1147	1579	DREG4409	0.495	0.830	1773	12/17/2004	8/6/2007	8/6/2014	*	9,827	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1148	653	132	26.759	26.998	1436	10/5/2011		10/5/2021		9,820	ILI, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
1149	1281	7205-01	0.195	0.864	3043	12/17/2004	12/1/2011	12/1/2018		9,814	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1150	1615	DREG5480	0.237	0.616	2014	12/17/2004	2/20/2007	2/20/2014	*	9,810	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1151	1367	BD10823	0.000	0.000	3.86183182	11/17/2011		12/31/2015	*	9,807	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
1152	1368	BD10825	0.000	0.000	15.80714995	11/17/2011		12/31/2015	*	9,807	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
1153	1737	STUB6043	0.000	0.000	2	12/17/2004	9/23/2008	9/23/2015		9,806	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1154	367	103	25.075	25.914	4440	12/17/2004	9/24/2011	9/24/2018		9,806	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1155	364	1027-01	5.769	6.050	1488	12/17/2004	3/16/2007	3/16/2014		9,806	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1156	963	181B	9.916	10.849	4965	12/17/2004	11/8/2006	11/8/2013		9,803	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1157	680	136	12.027	12.524	2590	12/17/2004	9/17/2008	9/17/2015		9,787	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1158	52	021D	19.030	19.320	1546	10/21/2008	12/7/2010	12/7/2017		9,780	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1159	1614	DREG5480	0.000	0.029	152	12/17/2004	2/20/2007	2/20/2014		9,776	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1160	1171	301C	13.630	13.676	250	12/17/2004	6/21/2011	6/21/2018		9,774	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1161	1484	DF3410	0.000	0.000	18	12/17/2004	4/29/2012	4/29/2019		9,772	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1162	1051	220	30.535	30.657	631	2/23/2006		2/23/2016		9,770	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1163	1052	220	30.749	30.858	566	10/5/2010		10/5/2020		9,770	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1164	525	118B	7.860	8.280	2242	12/17/2004	12/1/2011	12/1/2018		9,769	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1165	343	101	8.620	9.436	4745	12/17/2004	12/4/2008	12/4/2015	*	9,769	ILI, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
1166	1160	3017-01	2.258	2.370	565	2/16/2006	7/19/2011	7/19/2018		9,769	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1167	196	057B	8.730	10.440	10153	12/17/2004	9/29/2008	9/29/2013	*	9,768	ILI, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
1168	1023	210A	10.133	10.929	6145	12/17/2004	6/10/2011	6/10/2018		9,766	ILI, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
1169	737	1501-03	0.000	0.010	30	9/15/2009	4/18/2011	4/18/2018		9,765	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1170	1165	301A	0.000	0.120	1069	12/17/2004	6/21/2011	6/21/2016	*	9,761	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1171	733	1501-02	4.082	4.217	712	8/23/2008	4/18/2011	4/18/2018		9,759	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1172	835	1615-04	5.046	6.898	9855	12/17/2004	12/4/2009	12/4/2016		9,755	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1173	1715	STUB10963	0.000	0.010	51	1/30/2012		1/30/2022		9,750	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1174	1190	304	3.194	4.586	7303	12/17/2004	8/23/2011	8/23/2016	*	9,747	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1175	258	0617-06	7.566	7.887	1694	12/17/2004	4/7/2010	4/7/2017		9,732	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
1176	802	1611-03	0.760	0.974	1128	12/17/2004	12/4/2009	12/4/2016		9,732	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1177	1827	X11102	0.000	0.001	6	7/2/2012	10/2/2012	10/2/2019		9,731	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1178	1858	X6458	0.000	0.000	5	7/2/2012	10/2/2012	10/2/2019		9,731	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1179	394	105B-2	0.000	0.650	3458	12/17/2004	11/4/2012	11/4/2019		9,724	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1180	831	1615-01	5.113	5.561	2352	12/17/2004	12/4/2009	12/4/2016		9,722	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1181	1039	215	6.867	7.045	861	8/14/2007	11/4/2009	11/4/2016		9,706	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1182	1287	7206-01	0.728	0.880	805	12/17/2004	12/1/2011	12/1/2018		9,705	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1183	12	0203-01	0.000	0.378	1999	12/17/2004	3/23/2009	3/23/2016		9,690	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Low
1184	330	0834-01	3.571	3.633	328	11/22/2010	11/11/2011	11/11/2018		9,681	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1185	760	1519-01	0.428	0.571	751	12/17/2004	3/8/2007	3/8/2014		9,679	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1186	162	0407-01	2.968	3.163	1028	12/17/2004	10/31/2006	10/31/2013		9,677	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1187	348	101	33.064	33.509	2660	12/17/2004	11/3/2011	11/3/2016	*	9,674	ILI, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Low
1188	171	050A	12.110	12.241	655	12/17/2004	9/23/2008	9/23/2015		9,672	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1189	846	1641-01	0.010	0.430	2213	12/17/2004	6/13/2012	6/13/2019		9,671	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1190	1654	GCUST5818	0.000	0.200	1078	3/28/2006	5/23/2012	5/23/2019		9,671	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Low
1191	586	1217-01	0.224	0.531	1618	9/29/2011		9/29/2021		9,654	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1192	266	0617-08	0.000	1.062	5607	12/17/2004	4/7/2010	4/7/2017		9,653	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1193	1671	GCUST5885	0.460	0.568	571	12/17/2004	1/8/2007	12/31/2015		9,652	ECDA, HYDRO, P&M	Yes	No	No	Unstable	No	No	Yes	Yes	Low	Medium
1194	647	132	17.320	17.888	2994	12/17/2004	10/8/2009	10/8/2016		9,652	ILI, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Low
1195	1127	300B	200.743	201.222	2498	12/17/2004	11/11/2011	11/11/2016		9,646	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	No	Low	Medium
1196	798	1611-01	0.000	0.564	2964	12/17/2004	12/4/2009	12/4/2016		9,644	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1197	160	0407-01	2.480	2.578	519	12/17/2004	10/31/2006	10/31/2013		9,643	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1198	176	050A	32.590	32.900	1665	12/17/2004	9/23/2008	9/23/2015		9,635	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1199	1853	X6430	0.000	0.014	72	12/17/2004	10/8/2009	10/8/2016		9,630	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1200	292	0638-02	1.595	1.800	1086.690289	12/17/2004	12/16/2010	12/16/2017	*	9,630	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1201	714	142S	3.210	4.414	6556	12/17/2004	9/14/2011	9/14/2018	*	9,617	ILI, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
1202	841	162A	3.798	4.418	3290	12/17/2004	8/13/2007	8/13/2014		9,615	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1203	842	162A	4.650	5.329	3591	12/17/2004	8/13/2007	8/13/2014		9,615	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1204	1670	GCUST5877	0.108	0.174	354	12/17/2004	12/1/2006	12/1/2013		9,613	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1205	1134	300B	263.468	264.368	4762	12/17/2004	4/23/2012	4/23/2019		9,612	ILI, SCCDA, P&M	Yes	Yes	No	No	Stable	Stable	Yes	Yes	Low	Medium
1206	1192	306	0.000	0.170	1089	12/17/2004	8/13/2007	8/13/2014	*	9,609	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1207	1266	402	27.410	29.911	13260	12/17/2004	11/12/2012	11/12/2019		9,603	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
1208	1864	X6475	0.000	0.026	137	12/17/2004	11/8/2006	11/8/2013		9,596	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1209	1497	DF3456	0.001	0.001	1	7/24/2007	5/19/2010	5/19/2017		9,595	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1210	358	1023-01	1.477	1.941	2431	12/17/2004	11/12/2012	11/12/2019		9,594	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1211	834	1615-04	4.670	4.884	1141	12/17/2004	12/4/2009	12/4/2016	*	9,594	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1212	45	021C	46.791	47.017	1202	12/17/2004	12/7/2010	12/7/2017		9,592	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1213	47	021C	47.763	48.483	3889	12/17/2004	12/7/2010	12/7/2017		9,592	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1214	1479	DF3374	0.000	0.007	40	12/17/2004	10/8/2009	10/8/2016	*	9,588	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1215	1776	STUB7540	0.000	0.001	6	12/17/2004	8/13/2007	8/13/2014		9,587	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1216	329	0833-04	0.001	0.183	998	4/12/2006	12/2/2009	12/2/2016		9,579	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Master HCA	ROUTE	Begin Milepoint	End Milepoint	Footage	Date HCA Identified	Master HCA Last Assessment Date	Master HCA Assessment Due Date	Multi Dates	Risk	Assessment Methods	EC THREAT	SCC THREAT	IC THREAT	MANUF. (SEAM) THREAT	MANUF. (BODY OF PIPE) THREAT	CONST. THREAT	TPD THREAT	WROF THREAT	EQUIP THREAT	IO THREAT
1217	240	0611-07	0.120	0.490	1954	12/17/2004	12/4/2009	12/31/2013	*	9,573	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
1218	879	173-1	1.011	1.094	440	12/17/2004	3/8/2007	3/8/2014		9,572	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1219	1328	7224-07	1.761	2.370	3203	12/17/2004	9/22/2007	9/22/2014		9,571	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1220	1149	300B	487.180	490.202	10998	12/17/2004	5/4/2006	5/4/2013	*	9,565	ILI, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1221	1730	STUB11163	0.000	0.001	5	12/17/2004	11/8/2006	11/8/2013		9,560	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1222	717	142S	9.077	9.267	998	12/17/2004	5/3/2007	5/3/2014		9,557	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
1223	678	134A	32.747	33.332	3102	12/17/2004	5/21/2007	5/21/2014	*	9,557	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1224	1704	STUB10015	0.000	0.001	5	12/17/2004	4/7/2010	4/7/2017		9,557	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1225	1618	DREG5496	1.614	2.959	7091	12/17/2004	12/16/2010	12/16/2017		9,555	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Low
1226	1773	STUB7078	3.571	3.571	2	11/19/2010	11/11/2011	11/11/2018		9,548	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1227	221	0607-01	2.098	3.432	7010	12/17/2004	12/4/2009	12/4/2016		9,547	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1228	224	0608-01	0.642	1.614	5135	12/17/2004	12/4/2009	12/4/2016	*	9,543	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1229	413	108	15.136	15.645	2690	12/17/2004	8/20/2012	8/20/2019		9,538	ILI, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1230	743	1509-04	1.586	2.252	3527	12/17/2004	2/16/2007	2/16/2014		9,538	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1231	1121	300B	160.712	161.541	6116	12/17/2004	5/3/2007	5/3/2014	*	9,522	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1232	1655	GCUST5819	0.000	0.150	788	3/28/2006	5/23/2012	5/23/2019		9,521	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Low
1233	518	118A-1	1.268	1.385	620	11/22/2008	12/1/2011	12/1/2018		9,519	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1234	1623	DREG5645	0.200	0.291	482	12/17/2004	10/6/2012	12/31/2014	*	9,510	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
1235	926	1816-01	0.000	1.217	6640	12/17/2004	8/23/2011	8/23/2018	*	9,506	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1236	814	1614-04	0.382	0.471	473	12/18/2008	6/13/2012	6/13/2019		9,504	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1237	298	0651-01	0.000	0.166	913	12/17/2004	4/7/2010	4/7/2017		9,490	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1238	585	1217-01	0.029	0.078	261	12/4/2008	12/1/2011	12/1/2018		9,485	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1239	1565	DREG4200	0.111	0.250	717	12/17/2004	11/3/2011	11/3/2018		9,481	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Low
1240	513	118A	74.890	75.350	1214	11/10/2010		11/10/2020		9,481	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1241	469	114	9.617	9.946	1858	12/17/2004	6/13/2007	12/31/2013	*	9,478	ILI, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
1242	1471	DF3300	0.000	0.000	34	12/17/2004	12/4/2009	12/4/2016		9,474	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1243	1324	7224-01	2.410	5.794	17816	12/17/2004	12/13/2010	12/13/2017	*	9,474	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1244	31	021A	16.960	17.314	1869	12/17/2004	12/7/2010	12/7/2017		9,473	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
1245	1532	DFDS3628	0.008	0.010	19	12/17/2004	10/8/2009	10/8/2016		9,463	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Low
1246	357	1023-01	2.226	2.830	3187	12/17/2004	11/12/2012	11/12/2019		9,458	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1247	459	111A	25.596	25.822	1282	12/17/2004	4/15/2011	4/15/2018	*	9,455	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1248	1560	DREG4180	0.000	0.039	205	12/17/2004	3/28/2011	3/28/2018		9,454	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1249	524	118B	4.751	4.979	1205	2/2/2006	12/1/2011	12/1/2018		9,447	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1250	1679	GCUST5943	0.000	0.043	224	12/17/2004	12/1/2011	12/1/2018		9,440	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1251	1060	2406-01	0.000	0.153	806	10/4/2005	7/27/2010	7/27/2017		9,438	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1252	1241	401	259.587	260.679	5780	12/17/2004	11/2/2011	11/2/2018		9,436	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1253	819	1614-13	1.708	2.240	2810	12/17/2004	8/24/2007	8/24/2014		9,431	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1254	1195	314	24.747	24.916	885	2/1/2006		2/1/2016		9,430	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1255	564	1202-17	2.234	2.580	1819	12/17/2004	5/14/2007	5/14/2014		9,429	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1256	1099	300A	384.651	385.088	2311	12/17/2004	11/17/2011	11/17/2018		9,423	ILI, SCCDA, P&M	Yes	Yes	No	No	Stable	Stable	Yes	Yes	Low	Medium
1257	1682	GCUST5958	0.226	0.674	2353	12/17/2004	12/13/2010	12/13/2017	*	9,421	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1258	960	181A-10	5.499	5.670	934	12/17/2004	11/8/2006	11/8/2013		9,414	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1259	1529	DFDS3606	0.000	0.045	238	12/17/2004	12/16/2010	12/16/2017		9,411	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1260	1065	2408-05	4.162	4.877	3775	12/17/2004	2/1/2010	2/1/2017	*	9,410	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1261	590	1220-01	0.255	0.868	3181	5/19/2010	12/1/2010	12/1/2017		9,410	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1262	1629	DRIP5659	0.000	0.000	2	5/2/2006		5/2/2016		9,408	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1263	1491	DF3426	8.502	8.610	930	2/16/2006	4/28/2010	4/28/2017		9,407	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
1264	1267	402	30.274	30.959	3620	12/17/2004	11/12/2012	11/12/2019		9,401	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1265	57	021D	0.010	1.150	6093	12/17/2004	12/7/2010	12/7/2017	*	9,400	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1266	610	124B	0.820	0.892	532	12/19/2008		12/19/2018		9,399	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
1267	1271	402	36.648	36.934	1498	12/17/2004	2/20/2007	2/20/2014		9,396	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
1268	1447	DCUST7910	0.048	0.054	32	1/25/2006	12/16/2010	12/16/2017		9,385	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1269	1485	DF3410	0.250	0.250	12	12/17/2004	4/29/2012	4/29/2019		9,378	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1270	986	190	0.000	0.150	767	12/17/2004	2/2/2011	2/2/2018		9,375	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1271	225	0608-01	1.742	2.039	1570	12/17/2004	12/4/2009	12/4/2016		9,369	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1272	323	0833-01	4.324	4.702	2006	12/17/2004	5/3/2007	5/3/2014		9,369	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1273	1592	DREG4868	0.000	0.048	242	12/17/2004	10/2/2012	10/2/2019		9,368	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1274	748	1511-01	3.394	3.530	732	12/17/2004	7/31/2008	7/31/2015	*	9,364	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1275	1874	X6559	0.000	0.008	45	12/17/2004	9/22/2007	9/22/2014		9,359	ECDA, HYDRO, P&M	Yes	No	No	Unstable	No	No	Yes	No	Low	Medium
1276	143	0405-01	1.789	2.050	1365	12/17/2004	10/31/2006	10/31/2013		9,352	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1277	1390	BD464	0.014	0.097	420	9/14/2010	11/11/2011	11/11/2018		9,351	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1278	267	0617-08	1.204	3.287	10998	12/17/2004	4/7/2010	4/7/2017		9,349	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1279	1774	STUB7093	0.000	0.001	5	7/27/2007	4/15/2011	4/15/2018		9,348	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1280	1090	300A	244.458	244.976	2735	3/28/2006	11/11/2011	11/11/2016		9,347	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1281	958	181A	18.946	20.020	6191	12/17/2004	11/8/2006	11/8/2013		9,343	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1282	215	0604-16	0.000	0.111	590	12/17/2004	9/29/2011	12/31/2013	*	9,343	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
1283	306	0805-01	0.000	0.825	4290	12/17/2004	10/8/2009	10/8/2016	*	9,342	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1284	101	021F	15.501	16.082	3113	12/17/2004	3/3/2006	3/3/2013		9,329	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1285	432	108	66.832	67.015	1303	11/26/2008		11/26/2018		9,306	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1286	1430	DCUST10030	0.000	0.470	2464	12/17/2004	8/24/2007	8/24/2014	*	9,306	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1287	1082	300A	155.467	157.010	8228	12/17/2004	5/3/2007	5/3/2014	*	9,304	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1288	1509	DF7117	0.000	0.004	19	12/17/2004	6/21/2011	12/31/2013		9,295	ECDA, ICDA, HYDRO, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	Yes	Low	Medium
1289	1448	DCUST8180	0.000	0.002	10	3/15/2006	12/4/2009	12/31/2013		9,286	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
1290	1656	GCUST5820	0.000	0.008	43	12/17/2004	4/27/2012	4/27/2019		9,282	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1291	581	121	11.267	11.730	2444	12/17/2004	2/16/2007	2/16/2014	*	9,281	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1292	527	118B	10.282	10.580	1535	12/17/2004	12/1/2011	12/1/2018		9,280	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1293	712	142N-3	0.000	0.071	374	11/14/2011		11/14/2021		9,280	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Low
1294	1196	316-2	0.000	0.120	648	7/16/2008	9/7/2010	9/7/2017		9,278	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
1295	1578	DREG4409	0.109	0.284	924	12/17/2004	8/6/2007	8/6/2014		9,269	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1296	1461	DF3233	0.000	0.020	107	12/17/2004	3/3/2006	12/31/2013		9,266	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
1297	1658	GCUST5826	0.000	0.010	80	10/9/2007	5/18/2010	5/18/2015		9,265	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Master HCA	ROUTE	Begin Milepoint	End Milepoint	Footage	Date HCA Identified	Master HCA Last Assessment Date	Master HCA Assessment Due Date	Multi Dates	Risk	Assessment Methods	EC THREAT	SCC THREAT	IC THREAT	MANUF. (SEAM) THREAT	MANUF. (BODY OF PIPE) THREAT	CONST. THREAT	TPD THREAT	WROF THREAT	EQUIP THREAT	IO THREAT
1298	1437	DCUST1710	0.000	0.003	4	3/8/2011	10/2/2012	10/2/2019		9,264	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Medium
1299	1640	GCUST5748	0.337	0.527	1005	10/29/2010	4/27/2012	4/27/2019		9,258	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1300	1789	STUB8195	0.000	0.001	5	10/3/2005	9/22/2009	9/22/2016		9,255	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1301	220	0607-01	6.090	6.221	671	12/17/2004	12/4/2009	12/4/2016		9,250	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1302	529	118B	12.463	12.994	2816	12/17/2004	12/1/2011	12/1/2018		9,248	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1303	1428	BD9958	0.000	0.001	12	10/1/2010	6/13/2012	6/13/2019		9,245	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1304	401	105N-2	0.000	1.293	6746	12/17/2004	11/4/2012	12/31/2013	*	9,242	ECDA, HYDRO, P&M	Yes	No	No	Unstable	No	No	Yes	Yes	Low	Medium
1305	749	1511-01	0.952	1.171	1155	12/17/2004	4/18/2011	4/18/2018		9,239	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1306	592	123	1.033	1.715	3601	12/17/2004	2/14/2007	12/31/2013	*	9,230	ECDA, ICDA, HYDRO, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	No	Low	Medium
1307	1581	DREG4497	0.000	0.190	999	12/17/2004	5/14/2007	5/14/2014		9,228	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1308	1621	DREG5642	0.000	0.000	7	11/19/2010		10/6/2019		9,228	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1309	359	1023-01	0.850	1.442	3146	12/17/2004	11/12/2012	11/12/2019		9,221	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1310	537	118F	0.000	0.190	1014	12/22/2008		12/22/2018		9,221	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1311	248	0613-01	5.012	5.290	1469	12/17/2004	9/14/2009	9/14/2016		9,219	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1312	1109	300A	474.105	475.475	7288	12/17/2004	9/10/2009	9/10/2014	*	9,216	ILI, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1313	765	1521-01	1.572	1.660	1493	12/17/2004	3/29/2011	3/29/2018		9,213	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1314	956	1819-01	2.218	2.415	1046	12/17/2004	8/23/2011	12/31/2015		9,206	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1315	1553	DREG4048	0.000	1.155	826	12/17/2004	8/24/2007	12/31/2013	*	9,205	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
1316	223	0607-02	0.000	0.509	2685	12/17/2004	12/4/2009	12/4/2016		9,204	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1317	1514	DF7710	0.000	0.010	28	11/18/2010		10/6/2019		9,201	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1318	1286	7206-01	0.212	0.570	1889	12/17/2004	12/1/2011	12/1/2018		9,180	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1319	757	1519-01	2.365	2.542	939	12/17/2004	3/8/2007	3/8/2014		9,177	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1320	218	0607-01	5.537	5.689	805	12/17/2004	12/4/2009	12/4/2016		9,172	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1321	843	162A	5.720	5.815	599	3/8/2007	8/25/2010	8/25/2017		9,171	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1322	531	118B	15.712	16.380	3574	12/17/2004	12/1/2011	12/1/2018		9,168	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1323	1211	375	3.947	4.841	4721	12/17/2004	6/18/2011	5/20/2018		9,151	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Low
1324	1541	DFDS8807	0.000	0.009	46	12/17/2004	11/3/2011	11/3/2018		9,150	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1325	1439	DCUST1853	0.000	0.013	66	3/15/2006	12/4/2009	12/4/2016		9,148	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1326	803	1611-03	0.120	0.608	2548	12/17/2004	12/4/2009	12/4/2016		9,148	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1327	1110	300A	476.461	478.001	8076	12/17/2004	9/10/2009	9/10/2014	*	9,147	ILI, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1328	48	021C	48.680	49.050	1996	12/17/2004	12/7/2010	12/7/2017		9,146	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1329	21	0211-01	0.549	0.680	762	12/17/2004	11/3/2011	11/3/2018		9,138	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Low
1330	806	1613-01	0.910	1.058	783	12/17/2004	12/4/2009	12/4/2016		9,124	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1331	535	118B	28.542	29.181	3382	12/17/2004	12/1/2011	12/1/2018		9,118	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1332	114	021G	12.667	13.720	5562	12/17/2004	12/7/2010	12/7/2017		9,115	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1333	172	050A	14.894	15.012	623	11/3/2008		11/3/2018		9,113	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1334	1128	300B	237.445	238.000	2930	3/28/2006	11/11/2011	11/11/2016	*	9,108	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1335	1624	DREG5645	0.075	0.135	316	12/17/2004	10/6/2012	10/6/2019		9,107	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1336	1512	DF7600	0.000	0.001	5	7/24/2007	5/19/2010	5/19/2017		9,102	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1337	1498	DF3456	0.000	0.000	1	7/24/2007	5/19/2010	5/19/2017		9,102	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1338	299	0651-01	0.267	0.548	1488	12/17/2004	4/7/2010	4/7/2017		9,091	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1339	1502	DF3524	0.000	0.000	21	11/19/2010		10/6/2019		9,088	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1340	1217	400	185.657	186.442	4114	12/17/2004	11/13/2010	11/13/2015		9,078	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	No	Low	Medium
1341	1840	X6381	36.240	36.240	650	12/17/2004	11/4/2012	11/4/2019		9,070	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
1342	1794	STUB8383	0.010	0.000	2	5/1/2006	4/7/2010	4/7/2017		9,069	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1343	32	021A	22.374	22.950	3052	11/15/2011		11/15/2021		9,065	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
1344	1663	GCUST5839	0.000	0.020	82	12/17/2004	8/24/2007	12/31/2013		9,064	ECDA, HYDRO, P&M	Yes	No	No	Unstable	No	No	Yes	No	Low	Medium
1345	1705	STUB10067	0.000	0.002	13	9/20/2008	12/13/2010	12/13/2017		9,062	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1346	839	1622-01	0.962	1.000	198	12/17/2004	8/19/2011	8/19/2018		9,060	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1347	268	0617-09	0.000	0.022	116	12/17/2004	4/7/2010	4/7/2017		9,056	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
1348	1651	GCUST5802	0.000	0.008	40	12/17/2004	12/1/2010	12/1/2017		9,052	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1349	651	132	22.588	23.607	5408	12/17/2004	10/8/2009	10/8/2016	*	9,050	ILI, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Low
1350	1511	DF7569	0.000	0.000	4	12/17/2004	9/14/2009	9/14/2016		9,049	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1351	950	1817-01	8.144	8.359	1129	12/17/2004	4/28/2010	4/28/2017		9,048	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
1352	138	0401-01	0.717	0.842	658	10/8/2008		10/8/2018		9,044	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1353	1711	STUB10273	0.000	0.000	2	12/17/2004	10/31/2006	10/31/2013		9,029	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1354	1788	STUB7977	0.000	0.013	68	2/9/2007	9/2/2010	9/2/2017		9,021	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
1355	1242	401	185.713	186.494	4134	12/17/2004	11/2/2011	11/2/2016		9,013	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	No	No	Yes	No	Low	Medium
1356	1490	DF3426	9.444	9.590	831	12/17/2004	11/8/2006	11/8/2013		9,006	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1357	796	1611-01	0.990	1.110	626	12/17/2004	12/4/2009	12/4/2016		8,999	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1358	408	107	24.130	24.420	1689	1/3/2006	7/27/2010	7/27/2015	*	8,977	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1359	107	021F	1.746	2.170	3484	12/17/2004	12/7/2010	12/7/2017		8,968	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1360	1634	DRIP7983	0.000	0.002	10	5/2/2006	5/1/2012	5/1/2019		8,957	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1361	1617	DREG5482	0.000	0.002	12	12/17/2004	2/20/2007	2/20/2014		8,951	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1362	583	121	10.386	10.480	543	11/7/2007	5/18/2010	5/18/2017		8,949	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1363	742	1509-04	0.770	1.275	2678	12/17/2004	2/16/2007	2/16/2014	*	8,949	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1364	197	057B	0.000	0.337	1780	12/17/2004	9/29/2008	9/29/2013	*	8,947	ILI, ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
1365	883	173-4	12.480	12.481	6	12/17/2004	3/8/2007	3/8/2014		8,943	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1366	297	0650-01	0.025	0.880	4739	12/17/2004	5/19/2010	5/19/2017		8,940	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1367	1229	401	378.504	380.062	8240	12/17/2004	7/16/2012	7/16/2017	*	8,927	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1368	1611	DREG5477	0.609	0.834	1183	12/17/2004	2/20/2007	2/20/2014		8,911	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1369	371	103	20.948	21.075	759	2/14/2006	9/24/2011	9/24/2018		8,911	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1370	372	103	20.588	20.872	1692	12/17/2004	9/24/2011	9/24/2018		8,911	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1371	1111	300A	480.957	481.520	2951	12/17/2004	11/3/2011	11/3/2018		8,904	ILI, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Medium
1372	808	1613-05	1.155	1.239	444	12/18/2008		12/18/2018		8,896	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1373	239	0611-06	0.000	0.130	681	12/17/2004	12/4/2009	12/4/2016		8,892	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1374	1135	300B	272.400	273.960	8437	12/17/2004	4/23/2012	4/23/2019		8,889	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1375	1326	7224-06	0.000	0.020	125	12/17/2004	4/27/2012	4/27/2019		8,889	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1376	1452	DCUST8593	0.000	0.015	80	10/23/2007	7/25/2012	7/25/2019		8,882	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	No	Low	Medium
1377	1646	GCUST5774	0.909	1.642	3887	12/17/2004	12/4/2009	12/4/2016		8,881	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1378	8	002	153.829	154.291	2438	12/17/2004	8/30/2006	8/30/2013		8,875	ILI, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Master HCA	ROUTE	Begin Milepoint	End Milepoint	Footage	Date HCA Identified	Master HCA Last Assessment Date	Master HCA Assessment Due Date	Multi Dates	Risk	Assessment Methods	EC THREAT	SCC THREAT	IC THREAT	MANUF. (SEAM) THREAT	MANUF. (BODY OF PIPE) THREAT	CONST. THREAT	TPD THREAT	WROF THREAT	EQUIP THREAT	IO THREAT
1379	804	1611-03	0.000	0.120	650	12/17/2004	12/4/2009	12/4/2016		8,875	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1380	880	173-15	0.000	0.001	7	12/17/2004	3/8/2007	3/8/2014		8,874	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1381	521	118B	0.000	0.450	2419	12/17/2004	12/1/2011	12/1/2018		8,873	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1382	265	0617-07	0.000	1.112	5872	7/16/2007	4/7/2010	4/7/2017		8,852	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1383	580	121	8.584	8.990	2133	12/17/2004	2/16/2007	2/16/2014		8,848	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1384	711	142N-2	0.000	0.010	60	12/17/2004	5/3/2007	5/3/2014		8,844	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Low
1385	1116	300A-1	156.398	157.009	3247	12/17/2004	5/3/2007	5/3/2014	*	8,835	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1386	1869	X6533	0.000	0.038	198	12/17/2004	9/20/2007	9/20/2014	*	8,834	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1387	1884	X7082	0.000	0.038	205	12/17/2004	9/20/2007	9/20/2014	*	8,834	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1388	1334	7225-01	0.000	0.041	224	12/17/2004	9/22/2007	9/22/2014		8,829	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	No	Low	Medium
1389	1734	STUB11289	0.000	0.012	64	8/28/2012		10/11/2019		8,828	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1390	741	1509-01	0.447	0.567	631	10/9/2007	5/18/2010	5/18/2017		8,823	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1391	695	138	49.276	49.430	813	9/29/2011		9/29/2021		8,823	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1392	1227	401	394.866	395.496	3316	11/10/2010	7/16/2012	7/16/2017	*	8,819	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1393	288	0630-01	10.868	10.936	367	12/17/2004	12/16/2010	12/16/2017		8,813	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1394	274	0617-15	0.110	0.239	673	12/17/2004	4/14/2009	4/14/2016		8,811	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1395	1283	7205-01	1.926	2.018	489	8/12/2009	12/1/2011	12/1/2018		8,810	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1396	1432	DCUST11247	0.000	0.005	26	9/6/2012		9/6/2022		8,806	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1397	1385	BD35	0.000	0.234	1231	11/18/2010	10/11/2012	10/11/2019		8,806	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1398	890	174-1-1	0.818	1.124	1612	4/10/2008		4/10/2018		8,798	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	No	Low	Medium
1399	1507	DF6869	0.000	0.002	10	12/17/2004	11/4/2012	11/4/2019		8,794	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
1400	1112	300A	483.148	483.739	3108	12/17/2004	11/3/2011	11/3/2018		8,786	ILI, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1401	1297	7221-16	0.698	1.226	2767	12/17/2004	12/13/2010	12/13/2017		8,780	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1402	1086	300A	198.929	199.490	2961	12/17/2004	11/11/2011	11/11/2016		8,778	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	No	Low	Medium
1403	1501	DF3500	0.000	0.000	25	12/17/2004	2/20/2007	2/20/2014		8,778	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
1404	1068	2408-11	0.488	2.954	13035	12/17/2004	2/1/2010	2/1/2017	*	8,769	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1405	1005	197C	21.151	21.506	1854	12/17/2004	8/19/2011	8/19/2018		8,764	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1406	1270	402	36.000	36.122	647	3/9/2006	11/12/2012	11/12/2019		8,764	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
1407	1733	STUB11239	0.000	0.000	2	1/25/2006	12/16/2010	12/31/2015		8,759	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	No	No	Yes	No	Low	Medium
1408	129	021H	5.680	6.430	5702	12/17/2004	12/7/2010	12/7/2017	*	8,747	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1409	1683	GCUST5959	0.000	0.100	274	12/17/2004	9/22/2007	9/22/2014		8,746	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1410	1763	STUB6265	0.760	0.760	5	11/22/2008	12/10/2010	12/10/2017		8,743	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1411	1363	BD10662	0.000	0.004	21	2/17/2009	12/18/2010	12/18/2017		8,743	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1412	1868	X6526	0.090	0.263	913	12/17/2004	11/11/2011	12/31/2013	*	8,737	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	No	No	Yes	Yes	Low	Medium
1413	1724	STUB11125	0.000	0.019	107	6/4/2012		6/4/2022		8,727	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1414	232	0608-04	0.042	0.096	293	3/7/2006	12/4/2009	12/4/2016		8,725	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1415	922	1815-02	5.957	6.068	522	8/19/2010		8/19/2020		8,715	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1416	1441	DCUST2470	0.000	0.019	98	12/17/2004	9/20/2007	12/31/2013		8,713	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
1417	845	162B	1.670	1.672	2	12/17/2004	8/13/2007	12/31/2014		8,713	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
1418	1351	7227-01	2.303	2.615	1641	12/17/2004	12/13/2010	12/13/2017		8,710	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1419	1353	7227-01	0.018	0.243	1183	12/17/2004	12/13/2010	12/13/2017		8,710	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1420	915	1815-02	14.605	14.750	857	12/17/2004	12/1/2006	12/1/2013		8,692	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1421	1350	7227-01	3.098	3.189	488	12/17/2004	12/13/2010	12/13/2017		8,690	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1422	159	0407-01	1.824	2.045	1256	12/17/2004	10/31/2006	10/31/2013	*	8,686	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1423	89	021E	118.284	118.450	875	12/17/2004	3/3/2006	3/3/2013		8,682	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1424	1276	6607-01	0.107	0.259	800	12/17/2004	5/3/2007	5/3/2014		8,681	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Low
1425	1013	202	18.510	18.634	645	12/17/2004	3/29/2011	3/29/2018		8,670	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1426	1753	STUB6157	0.000	0.009	45	10/8/2007	5/23/2012	5/23/2019		8,668	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Low
1427	1391	BD465	0.000	0.080	440	9/7/2010	11/11/2011	12/31/2015	*	8,667	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	No	Low	Medium
1428	1628	DRIP5655	0.000	0.003	15	3/30/2011		11/12/2019		8,661	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1429	1587	DREG4734	0.000	0.001	6	12/17/2004	10/8/2009	10/8/2016		8,660	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Medium
1430	587	1217-01	2.393	2.520	670	12/4/2008	12/1/2011	12/1/2018		8,655	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1431	588	1217-01	2.616	2.730	599	12/17/2004	12/1/2011	12/1/2018		8,655	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1432	1810	STUB8717	0.000	0.000	2	10/30/2007	6/13/2012	6/13/2019		8,649	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1433	764	1521-01	1.226	1.360	701	12/3/2008	3/29/2011	3/29/2018		8,639	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1434	744	1509-05	2.876	3.063	984	12/17/2004	5/31/2012	5/31/2019		8,635	ILI, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1435	1612	DREG5477	0.337	0.516	943	12/17/2004	2/20/2007	2/20/2014		8,629	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1436	417	108	18.107	19.466	7175	12/17/2004	8/20/2012	8/20/2019		8,624	ILI, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1437	881	173-20	11.659	11.761	491	12/19/2008	6/26/2012	6/26/2019		8,619	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1438	1018	210A	25.417	25.620	1054	10/4/2007	9/29/2011	12/31/2013	*	8,616	ILI, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
1439	1087	300A	200.704	201.222	2708	12/17/2004	11/11/2011	12/31/2014	*	8,615	ECDA, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	No	Low	Medium
1440	110	021G	18.128	19.437	6854	12/17/2004	12/7/2010	12/7/2017	*	8,605	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Medium
1441	815	1614-04	0.000	0.193	1021	1/3/2006	3/28/2007	3/28/2014		8,604	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1442	1610	DREG5419	0.264	0.379	611	9/28/2010	6/21/2011	6/21/2018		8,604	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1443	746	1509-05	4.929	5.466	2833	12/17/2004	5/31/2012	5/31/2019		8,596	ILI, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1444	747	1509-05	5.709	6.490	4119	12/17/2004	12/2/2011	12/2/2018	*	8,596	ILI, ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1445	1406	BD78	0.000	0.000	15	11/14/2010	11/3/2011	11/3/2018		8,589	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Low
1446	1393	BD547	0.000	0.000	5	11/22/2010	11/11/2011	11/11/2018		8,587	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1447	1009	197C-2	2.149	2.203	289	12/17/2004	8/19/2011	8/19/2018		8,576	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1448	219	0607-01	5.756	5.983	1204	9/17/2009	6/13/2012	6/13/2019		8,573	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1449	634	1305-45	0.000	1.828	9650	3/16/2006	11/13/2009	11/13/2016	*	8,572	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1450	1805	STUB8686	0.000	0.000	3	11/30/2006	1/15/2007	1/15/2014		8,560	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1451	1067	2408-05	5.228	5.616	2051	12/17/2004	2/1/2010	2/1/2017		8,543	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1452	791	1609-01	0.418	0.630	1121	12/17/2004	8/24/2007	8/24/2014		8,533	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1453	1108	300A	472.128	473.098	4990	12/17/2004	9/10/2009	9/10/2014		8,533	ILI, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1454	230	0608-01	5.107	5.284	933	12/17/2004	12/4/2009	12/4/2016		8,531	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1455	231	0608-01	5.438	5.609	905	12/17/2004	12/4/2009	12/4/2016		8,531	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1456	1372	BD11092	0.000	0.025	132	4/30/2012		4/30/2022		8,528	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1457	1106	300A	453.419	453.795	1967	7/24/2012	10/24/2012	10/24/2017	*	8,525	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1458	1722	STUB11116	0.000	0.021	110	12/17/2004	10/1/2007	10/1/2014		8,523	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1459	1660	GCUST5828	0.000	0.010	80	12/17/2004	2/16/2007	2/16/2014		8,515	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Master HCA	ROUTE	Begin Milepoint	End Milepoint	Footage	Date HCA Identified	Master HCA Last Assessment Date	Master HCA Assessment Due Date	Multi Dates	Risk	Assessment Methods	EC THREAT	SCC THREAT	IC THREAT	MANUF. (SEAM) THREAT	MANUF. (BODY OF PIPE) THREAT	CONST. THREAT	TPD THREAT	WROF THREAT	EQUIP THREAT	IO THREAT
1460	1105	300A	451.464	451.875	2197	12/17/2004	9/10/2009	9/10/2014		8,515	ILI, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1461	832	1615-04	1.112	1.324	1120	12/18/2008	6/13/2012	6/13/2019		8,512	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1462	382	1035-05	3.102	3.221	629	12/17/2004	2/20/2007	2/20/2014		8,511	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1463	383	1035-05	3.638	3.740	542	12/17/2004	2/20/2007	2/20/2014		8,511	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1464	96	021E	135.816	136.000	973	11/10/2008		11/10/2018		8,508	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1465	1731	STUB11221	0.000	0.007	36	8/28/2012		8/28/2022		8,508	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1466	1732	STUB11233	0.000	0.006	33	8/28/2012		8/28/2022		8,508	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1467	1014	202	22.974	23.085	586	12/17/2004	3/29/2011	3/29/2018		8,504	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1468	1442	DCUST2471	0.000	0.013	66	12/17/2004	9/20/2007	12/31/2013		8,497	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
1469	1277	6624-01	0.000	0.286	2223	12/17/2004	5/23/2012	5/23/2019		8,495	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Low
1470	1208	375	0.000	1.092	5766	12/17/2004	6/18/2011	5/20/2018		8,494	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Low
1471	847	167	34.404	34.530	672	8/23/2008	5/1/2012	5/1/2017	*	8,479	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1472	795	1609-01	2.327	2.743	2192	12/17/2004	8/24/2007	8/24/2014		8,478	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1473	1613	DREG5477	0.128	0.230	537	12/17/2004	2/20/2007	2/20/2014		8,476	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1474	1274	402B	11.697	11.918	1173	12/17/2004	11/12/2012	11/12/2019		8,465	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1475	1243	401	180.830	181.455	3296	8/6/2012		8/6/2022		8,452	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	No	No	Yes	No	Low	Medium
1476	1093	300A	268.952	269.534	3075	12/17/2004	3/29/2012	3/29/2019	*	8,449	ILI, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1477	1466	DF3254	3.560	3.560	10	12/17/2004	11/3/2011	11/3/2018		8,448	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Low
1478	1336	7225-01	1.246	1.434	990	12/17/2004	9/22/2007	9/22/2014		8,448	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1479	479	118A	4.875	4.963	483	3/9/2006		3/9/2016		8,448	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1480	1468	DF3259	0.000	0.020	81	12/17/2004	11/3/2011	11/3/2018		8,448	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Low
1481	331	0837-01	0.000	0.206	1075	12/17/2004	12/2/2009	12/2/2016		8,447	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
1482	332	0837-01	0.462	0.584	645	12/17/2004	12/2/2009	12/2/2016		8,447	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
1483	333	0837-01	0.693	0.814	645	12/17/2004	12/2/2009	12/2/2016		8,447	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
1484	1392	BD466	0.000	0.080	440	9/7/2010	11/11/2011	12/31/2015	*	8,441	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
1485	1708	STUB10158	0.000	0.000	2	5/14/2009	12/7/2010	12/7/2017		8,440	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1486	1709	STUB10159	0.000	0.000	2	5/14/2009	12/7/2010	12/7/2017		8,440	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1487	180	057A	14.846	15.135	1866	12/17/2004	12/6/2011	12/6/2018		8,439	ILI, SCCDA, P&M	Yes	Yes	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
1488	1527	DFDS3562	0.000	0.000	10	3/7/2006	8/20/2012	8/20/2019		8,431	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1489	1747	STUB6091	0.000	0.000	14	12/17/2004	12/16/2010	12/16/2017		8,413	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1490	1505	DF6856	0.000	0.013	69	12/17/2004	4/19/2012	4/19/2017		8,411	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1491	1101	300A	416.016	416.620	3087	12/17/2004	12/5/2011	1/8/2018		8,407	ILI, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1492	767	1523-01	0.000	0.206	1085	5/23/2011		5/23/2021		8,405	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1493	1224	400	80.041	81.285	6586	12/17/2004	11/13/2010	11/13/2015		8,402	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	No	Low	Medium
1494	860	172D	3.081	3.180	531	12/17/2004	12/16/2010	12/16/2017		8,396	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1495	1091	300A	256.220	257.076	4540.659016	12/17/2004	3/29/2012	12/31/2015	*	8,394	ILI, SCCDA, HYDRO, P&M	Yes	Yes	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
1496	790	1609-01	0.000	0.253	1342	12/17/2004	8/24/2007	8/24/2014		8,389	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1497	194	057A-MT	0.132	0.580	2421	12/17/2004	7/25/2012	7/25/2017		8,365	ECDA, ICDA, P&M	Yes	No	Yes	No	Stable	Stable	Yes	Yes	Low	Medium
1498	1148	300B	484.013	484.724	3841	12/17/2004	8/16/2011	8/16/2018		8,364	ILI, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Medium
1499	4	002	121.999	123.097	6358	12/17/2004	8/30/2006	8/30/2013	*	8,352	ILI, ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1500	889	174-1-1	1.267	1.454	986	11/21/2008		11/21/2018		8,349	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
1501	1202	331A	0.037	0.277	1266	12/17/2004	12/10/2010	12/10/2017		8,343	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1502	116	021G	8.938	9.360	2298	12/17/2004	12/7/2010	12/7/2017		8,342	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Medium
1503	1535	DFDS3645	0.000	0.010	40	12/17/2004	11/3/2011	11/3/2018		8,334	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Low
1504	1002	197A	39.778	39.983	1051	5/7/2009		12/31/2013	*	8,332	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
1505	1883	X6989	0.000	0.030	141	12/17/2004	9/22/2007	9/22/2014		8,312	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1506	884	173-7	12.480	12.481	7	12/17/2004	3/8/2007	3/8/2014		8,306	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1507	660	132	37.708	38.410	4161	12/17/2004	4/22/2007	12/31/2014	*	8,303	ILI, ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Low
1508	1775	STUB7099	0.000	0.001	3	12/17/2004	9/23/2008	9/23/2015		8,300	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1509	1728	STUB11141	0.000	0.007	38	6/4/2012		6/4/2022		8,297	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1510	1515	DF7990	0.000	0.002	11	5/23/2011		5/23/2021		8,295	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1511	1669	GCUST5857	0.077	0.127	269	12/17/2004	3/8/2007	3/8/2014		8,282	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1512	621	128	15.155	15.208	284	12/17/2004	8/7/2008	8/7/2015		8,280	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1513	1777	STUB7554	2.096	2.097	1	12/17/2004	8/23/2011	8/23/2018		8,279	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
1514	185	057A-M15	0.000	0.174	916	3/6/2008	7/25/2012	7/25/2019		8,262	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
1515	516	118A	83.720	83.725	32	12/22/2008	12/1/2011	12/1/2018		8,258	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1516	275	0618-03	0.000	0.213	1132	3/7/2006	8/20/2012	8/20/2019		8,253	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1517	1718	STUB11077	0.000	0.017	90	4/25/2012		4/25/2022		8,253	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1518	1206	331B-1	0.741	0.760	101	11/22/2008	12/10/2010	12/10/2017		8,248	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1519	468	114	10.151	10.457	2289	12/17/2004	6/13/2007	12/31/2013		8,248	ILI, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
1520	281	0619-04	0.000	0.177	941	10/5/2010	4/29/2012	4/29/2019		8,245	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1521	1354	7227-05	0.341	0.984	3400	12/17/2004	12/13/2010	12/13/2017		8,244	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1522	3	002	87.070	88.500	7550	12/17/2004	5/15/2008	5/15/2015	*	8,243	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1523	295	0647-01	3.021	3.110	506	12/17/2004	12/16/2010	12/16/2017		8,243	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1524	296	0647-01	2.469	2.547	409	12/17/2004	12/16/2010	12/16/2017		8,243	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1525	1556	DREG4118	3.110	3.120	21	12/17/2004	12/16/2010	12/16/2017		8,243	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1526	255	0617-06	7.171	7.306	711	9/30/2010		9/30/2020		8,232	ECDA, ICDA, P&M	Yes	No	Yes	No	Stable	Stable	Yes	No	Low	Medium
1527	539	118G	3.763	6.227	13012	5/20/2009		5/20/2019	*	8,224	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1528	294	0639-02	0.000	0.110	576	12/17/2004	9/14/2009	9/14/2016		8,221	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1529	453	109	36.950	38.319	10067	12/17/2004	3/23/2009	3/23/2016	*	8,212	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Low
1530	27	021A	12.047	12.353	1653	12/17/2004	12/7/2010	12/7/2017		8,208	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
1531	28	021A	12.484	13.114	3384	12/17/2004	12/7/2010	12/7/2017		8,205	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
1532	1510	DF7537	0.000	0.001	10	12/17/2004	8/13/2007	8/13/2014		8,194	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1533	793	1609-01	1.572	1.760	989	12/17/2004	8/24/2007	8/24/2014		8,180	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1534	14	0203-08	0.000	0.010	46	12/17/2004	11/3/2011	11/3/2018		8,169	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Low
1535	1657	GCUST5824	0.130	0.188	309	12/17/2004	3/16/2007	12/31/2013		8,137	ECDA, HYDRO, P&M	Yes	No	No	Unstable	No	No	Yes	No	Low	Medium
1536	1626	DREG9001	0.663	0.739	398	11/15/2010		11/15/2020		8,136	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1537	1822	STUB9947	0.000	0.001	4	12/17/2004	11/8/2006	11/8/2013		8,136	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1538	745	1509-05	3.849	3.982	701	12/17/2004	5/31/2012	5/31/2019		8,134	ILI, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1539	1118	300A-5	0.000	0.000	56	12/17/2004	6/5/2012	6/5/2017		8,133	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1540	1444	DCUST6888	0.000	0.015	80	3/7/2006	12/4/2009	12/4/2016		8,115	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium

SB_GT&S_0506321

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Master HCA	ROUTE	Begin Milepoint	End Milepoint	Footage	Date HCA Identified	Master HCA Last Assessment Date	Master HCA Assessment Due Date	Multi Dates	Risk	Assessment Methods	EC THREAT	SCC THREAT	IC THREAT	MANUF. (SEAM) THREAT	MANUF. (BODY OF PIPE) THREAT	CONST. THREAT	TPD THREAT	WROF THREAT	EQUIP THREAT	IO THREAT
1541	620	126B	4.740	5.130	2238	7/22/2010		7/22/2020		8,094	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1542	656	132	31.112	32.087	5127	12/17/2004	10/8/2009	10/8/2016	*	8,090	ILI, ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
1543	1431	DCUST10739	0.000	0.019	98	2/23/2012		2/23/2022		8,088	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1544	1450	DCUST8245	0.000	0.000	6	12/17/2004	2/23/2012	2/23/2019		8,085	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
1545	1518	DF8450	0.000	0.001	7	7/16/2007	4/7/2010	4/7/2017		8,077	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1546	1478	DF3373	0.000	0.000	18	12/17/2004	10/8/2009	10/8/2016		8,072	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1547	1716	STUB11018	0.000	0.000	2	2/13/2012		2/13/2022		8,072	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	Yes	Low	Low
1548	187	057A-MC	0.207	0.421	1267	12/17/2004	7/25/2012	7/25/2019		8,066	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
1549	1469	DF3267	0.000	0.000	7	12/17/2004	12/4/2008	12/4/2015		8,046	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Low
1550	999	191A	3.345	3.462	649	12/17/2004	7/19/2011	7/19/2018		8,038	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1551	1275	6603-01	4.430	5.408	5153	12/17/2004	12/16/2010	12/16/2017		8,035	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
1552	1825	X10142	0.000	0.003	15	6/21/2010	6/5/2012	6/5/2019		8,022	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1553	1222	400	113.622	114.630	5330	12/17/2004	11/13/2010	11/13/2015		8,019	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	No	Low	Medium
1554	510	118A	67.640	67.909	1493	7/2/2012		7/2/2022		8,014	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1555	1070	2408-11	4.348	4.470	637	12/9/2008	9/2/2010	9/2/2017		8,011	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1556	456	109	44.432	45.000	3181	12/17/2004	3/23/2009	3/23/2016		8,010	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Low
1557	1289	7209-01	1.055	1.214	839	12/17/2004	12/1/2011	12/1/2018		7,989	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1558	1144	300B	473.184	473.713	2792	12/17/2004	5/4/2006	5/4/2013		7,989	ILI, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1559	1141	300B	416.310	416.790	2540	12/17/2004	1/15/2011	1/15/2018		7,989	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1560	952	1818-01	0.170	0.361	1143	12/17/2004	8/23/2011	8/23/2018		7,972	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
1561	135	021H	11.290	11.410	1344	12/17/2004	12/7/2010	12/7/2017		7,970	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1562	1218	400	180.814	181.429	3251	8/6/2012		8/6/2022		7,967	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	No	Low	Medium
1563	161	0407-01	2.732	2.872	736	12/17/2004	10/31/2006	10/31/2013		7,967	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1564	1638	DRIP8710	0.000	0.021	111	10/4/2007	9/29/2011	12/31/2013		7,965	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
1565	269	0617-10	0.000	0.795	4194	10/23/2007	7/25/2012	7/25/2019		7,963	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1566	392	105B	2.806	3.232	2242	12/17/2004	10/1/2007	10/1/2014		7,958	ILI, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1567	34	021A	15.147	15.525	2019	11/2/2008	12/7/2010	12/7/2017		7,941	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
1568	1818	STUB8955	0.000	0.011	65	5/7/2008	2/15/2007	2/15/2014	*	7,921	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1569	124	021H	2.870	3.056	1118	12/17/2004	12/7/2010	12/7/2017	*	7,904	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1570	761	1519-04	0.768	1.005	1248	12/17/2004	3/8/2007	3/8/2014	*	7,898	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1571	1117	300A-4	0.000	0.000	118	12/17/2004	6/5/2012	6/5/2017		7,898	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1572	1395	BD602	0.000	0.020	111	9/28/2010	11/11/2011	11/11/2018		7,880	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Medium
1573	792	1609-01	1.205	1.284	418	12/17/2004	8/24/2007	8/24/2014		7,877	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1574	1124	300B	187.569	188.162	3197	12/17/2004	11/11/2011	11/11/2016		7,877	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1575	646	132	17.121	17.277	833	12/17/2004	10/8/2009	10/8/2016		7,877	ILI, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Low
1576	1721	STUB11110	0.000	0.004	14	5/7/2012		5/7/2022		7,874	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1577	833	1615-04	4.474	4.616	759	3/14/2008	12/4/2009	12/4/2016		7,867	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1578	1146	300B	476.747	477.192	2348	4/13/2006	5/4/2006	5/4/2013		7,861	ILI, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1579	106	021F	9.200	9.773	3096	12/17/2004	12/7/2010	12/7/2017		7,841	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1580	568	1205-02	1.073	1.210	724	12/17/2004	4/15/2011	4/15/2018		7,833	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1581	622	128	14.564	14.685	632	12/17/2004	8/7/2008	8/7/2015	*	7,828	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1582	191	057A-MD1	0.000	0.441	2310	12/17/2004	7/25/2012	7/25/2017	*	7,822	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
1583	1739	STUB6070	0.000	0.000	6	12/17/2004	11/3/2011	11/3/2018		7,818	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Low
1584	1540	DFDS8559	0.000	0.002	17	3/14/2006	9/2/2010	9/2/2017	*	7,818	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
1585	762	1519-04	0.074	0.606	2808	3/9/2006	6/26/2012	6/26/2019		7,814	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1586	428	108	60.421	60.752	1797	9/22/2009		9/22/2019		7,811	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	No	Low	Medium
1587	577	121	7.878	7.997	634	12/17/2004	2/16/2007	2/16/2014		7,810	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1588	1872	X6557	18.300	18.300	4	12/17/2004	4/27/2012	4/27/2019		7,807	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1589	1873	X6557	18.300	18.300	4	12/17/2004	4/27/2012	4/27/2019		7,807	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1590	130	021H	6.556	7.017	2913	12/17/2004	12/7/2010	12/7/2017	*	7,804	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1591	1554	DREG4086	0.000	0.013	67	6/6/2007	4/7/2010	4/7/2017		7,797	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	No	Low	Medium
1592	702	1403-01	0.000	0.090	471	12/17/2004	10/1/2007	10/1/2014		7,788	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1593	703	1403-01	0.205	0.440	1267	12/17/2004	10/1/2007	10/1/2014		7,788	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1594	534	118B	23.929	24.071	745	12/17/2004	12/1/2011	12/1/2018		7,788	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1595	1470	DF3294	0.000	0.001	22	12/17/2004	2/18/2006	11/14/2019		7,787	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
1596	1787	STUB7976	0.000	0.007	37	2/9/2007	9/2/2010	9/2/2017		7,786	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
1597	1197	316-2	0.447	0.781	1799	7/16/2008	9/7/2010	9/7/2017		7,782	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
1598	454	109	38.347	39.443	6914	12/17/2004	3/23/2009	3/23/2016		7,775	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Low
1599	1201	316F	0.573	0.688	525	7/16/2008	9/7/2010	9/7/2017		7,771	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
1600	193	057A-MD3	0.028	0.290	1407	12/17/2004	7/25/2012	7/25/2019		7,759	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
1601	1237	401	308.464	310.659	11572	12/17/2004	11/2/2011	11/2/2016	*	7,750	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1602	1007	197C	22.791	23.020	1208	12/17/2004	8/19/2011	8/19/2018		7,748	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1603	1500	DF3476	0.000	0.030	166	12/17/2004	9/10/2009	9/10/2016	*	7,738	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1604	894	177A	30.388	30.728	1775	12/17/2004	3/8/2011	3/8/2018		7,738	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1605	1456	DF11091	0.000	0.026	136	4/30/2012		4/30/2022		7,710	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1606	1379	BD301	0.000	0.001	5	9/14/2010	5/23/2012	5/23/2019		7,706	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Low
1607	1004	197C	20.774	20.897	643	12/17/2004	8/19/2011	8/19/2018		7,695	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1608	1006	197C	21.679	21.702	118	12/17/2004	8/19/2011	8/19/2018		7,695	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1609	376	103	4.786	4.938	800	12/17/2004	9/24/2011	9/24/2018		7,689	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
1610	305	0805-01	1.090	1.099	32	12/17/2004	10/8/2009	10/8/2016		7,678	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1611	192	057A-MD2	0.000	0.150	805	12/17/2004	7/25/2012	7/25/2017	*	7,657	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
1612	1210	375	3.072	3.277	1077	3/28/2006	6/18/2011	5/20/2018		7,632	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Low
1613	1131	300B	256.660	257.510	4481	12/17/2004	4/23/2012	4/23/2019		7,621	ILI, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1614	638	131	43.460	43.822	2114	12/17/2004	8/15/2011	12/31/2015	*	7,616	ILI, HYDRO, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	Yes	Low	Medium
1615	728	148-1	0.000	0.000	1	4/11/2012		4/11/2022		7,614	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1616	1408	BD7984	0.000	0.002	8	11/21/2011		11/21/2021		7,611	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
1617	1409	BD7985	0.000	0.002	8	11/21/2011		11/21/2021		7,611	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
1618	1221	400	139.735	140.302	2990	12/17/2004	11/13/2010	11/13/2015		7,609	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	No	Low	Medium
1619	7	002	139.250	140.155	4767	12/17/2004	8/30/2006	8/30/2013		7,597	ILI, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1620	1191	306	68.490	68.830	1132	12/17/2004	8/13/2007	8/13/2014		7,594	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Medium
1621	1322	7224-01	1.560	1.841	1480	12/17/2004	4/27/2012	4/27/2019		7,565	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Master HCA	ROUTE	Begin Milepoint	End Milepoint	Footage	Date HCA Identified	Master HCA Last Assessment Date	Master HCA Assessment Due Date	Multi Dates	Risk	Assessment Methods	EC THREAT	SCC THREAT	IC THREAT	MANUF. (SEAM) THREAT	MANUF. (BODY OF PIPE) THREAT	CONST. THREAT	TPD THREAT	WROF THREAT	EQUIP THREAT	IO THREAT
1622	256	0617-06	6.885	7.023	729	3/7/2006	4/7/2010	4/7/2017		7,561	ECDA, ICDA, P&M	Yes	No	Yes	No	Stable	Stable	Yes	No	Low	Medium
1623	1446	DCUST7757	0.000	0.123	649	9/30/2005	4/27/2012	4/27/2019		7,559	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1624	1736	STUB11344	0.000	0.008	43	9/6/2012		9/6/2022		7,551	ILI, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1625	1273	402B	9.950	10.062	596	12/17/2004	11/12/2012	11/12/2019		7,547	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1626	128	021H	5.057	5.461	2763	12/17/2004	10/11/2012	10/11/2019		7,546	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1627	1888	X8170	0.000	0.041	214	5/1/2006	12/4/2009	12/4/2016		7,540	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1628	1839	X6379	0.000	0.190	1001	12/17/2004	11/4/2012	12/12/2017	*	7,534	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
1629	125	021H	3.834	4.295	2362	12/17/2004	10/11/2012	10/11/2019		7,533	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1630	1177	301G	24.250	24.630	1998	12/17/2004	6/21/2011	6/21/2018		7,521	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1631	1232	401	336.340	337.130	4166	10/21/2011		10/21/2021		7,521	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1632	914	1815-02	10.098	10.159	569	8/19/2010		8/19/2020		7,520	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1633	1269	402	35.291	35.808	2728	12/17/2004	2/20/2007	2/20/2014		7,511	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
1634	515	118A	77.991	78.142	749	9/25/2007	12/1/2011	12/1/2018		7,509	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1635	1214	400	266.147	267.370	6472	12/17/2004	11/13/2010	11/13/2015		7,494	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1636	1453	DCUST982	0.000	0.253	1342	12/17/2004	5/3/2012	12/31/2015	*	7,492	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
1637	959	181A-10	2.214	2.488	1450	12/17/2004	11/8/2006	11/8/2013		7,480	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1638	1236	401	313.704	314.349	3434	10/27/2007	11/2/2011	11/2/2016	*	7,474	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1639	858	172A-1	78.530	78.552	119	12/17/2004	4/29/2012	4/29/2019		7,471	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1640	1323	7224-01	1.896	2.019	644	2/9/2006	12/13/2010	12/13/2017		7,448	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1641	1678	GCUST5919	0.117	0.158	220	12/17/2004	12/10/2010	12/10/2017		7,445	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1642	375	103	15.642	15.863	1173	10/22/2008	9/24/2011	9/24/2018		7,442	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1643	829	1615-01	5.723	6.260	2455	12/17/2004	12/4/2009	12/4/2016		7,428	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1644	1235	401	321.572	322.620	5541	12/17/2004	7/16/2012	7/16/2017	*	7,424	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1645	677	134A	25.314	25.554	1228	12/17/2004	5/21/2007	5/21/2014		7,423	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1646	1648	GCUST5778	0.085	0.160	397	12/17/2004	5/3/2007	5/3/2014		7,416	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1647	582	121	10.141	10.250	631	1/27/2006	5/18/2010	5/18/2017		7,394	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1648	1473	DF3318	0.000	0.002	12	12/17/2004	10/1/2007	10/1/2014		7,394	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Low
1649	1480	DF3375	0.000	0.000	9	12/17/2004	10/8/2009	10/8/2016		7,394	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Low
1650	1855	X6435	0.000	0.000	31	12/17/2004	10/8/2009	10/8/2016		7,394	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Low
1651	1892	X8828	0.000	0.009	45	9/25/2007	12/1/2011	12/1/2018		7,394	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1652	1720	STUB11090	0.000	0.013	70	7/3/2012		10/1/2014	*	7,391	ILI, ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1653	415	108	16.534	16.938	2137	12/17/2004	8/20/2012	8/20/2019		7,385	ILI, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1654	1584	DREG4583	0.000	0.028	148	7/23/2010		7/23/2020		7,374	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1655	1306	7222-01	0.947	0.995	322	6/25/2009		6/25/2019		7,372	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1656	1069	2408-11	3.979	4.116	731	12/17/2004	9/2/2010	9/2/2017		7,371	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1657	1223	400	83.912	84.949	5464	12/17/2004	11/13/2010	11/13/2015		7,370	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1658	928	1816-01	3.937	4.055	623	12/17/2004	11/8/2006	11/8/2013		7,342	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
1659	1188	303	4.768	7.765	15931	12/17/2004	4/21/2008	4/21/2015		7,341	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1660	526	118B	9.654	9.990	1790	2/2/2006	12/1/2011	12/1/2018		7,335	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1661	1451	DCUST8353	0.000	0.075	394	2/23/2006	5/19/2010	5/19/2017		7,332	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1662	379	1035-05	0.336	0.612	1462	12/17/2004	2/20/2007	2/20/2014		7,326	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1663	1717	STUB11043	0.000	0.000	2	2/1/2012		12/4/2019		7,326	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Low
1664	433	108	67.188	67.355	1191	12/17/2004	12/4/2009	12/4/2016		7,322	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1665	1727	STUB11140	0.000	0.010	55	6/4/2012		6/4/2022		7,308	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1666	280	0619-04	0.381	0.412	164	10/5/2010	4/29/2012	4/29/2019		7,302	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1667	1245	401	144.007	145.203	6531	12/17/2004	11/2/2011	11/2/2016	*	7,301	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1668	5	002	126.516	127.190	3656	12/17/2004	8/30/2006	8/30/2013		7,293	ILI, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1669	1250	401	79.996	81.217	6358	12/17/2004	11/2/2011	11/2/2016	*	7,288	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1670	840	162A	1.531	1.823	1547	12/17/2004	8/13/2007	8/13/2014		7,288	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1671	1169	301B	10.159	10.335	938	10/15/2008	6/21/2011	6/21/2018		7,287	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1672	1209	375	1.448	1.879	2285	12/17/2004	6/18/2011	5/20/2018		7,282	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Low
1673	1645	GCUST5774	1.818	2.170	1819	12/17/2004	12/4/2009	12/4/2016		7,280	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1674	1889	X8309	0.000	0.010	53	12/17/2004	4/7/2010	4/7/2017		7,279	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1675	938	1816-01	11.696	11.913	1143	12/17/2004	11/8/2006	11/8/2013		7,241	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
1676	538	118G	2.271	2.541	1429	4/11/2012		4/11/2022		7,236	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1677	452	109	36.435	36.816	2093	12/17/2004	10/1/2007	10/1/2014	*	7,223	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Low
1678	517	118A	83.554	83.690	723	12/17/2004	8/6/2007	8/6/2014		7,221	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1679	397	105N	12.166	12.452	1744	12/17/2004	11/4/2012	11/4/2019		7,213	ILI, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
1680	1094	300A	274.781	275.407	3554	3/28/2006	3/29/2012	3/29/2019		7,210	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1681	414	108	15.928	16.270	1808	8/12/2009	8/20/2012	8/20/2019		7,207	ILI, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1682	427	108	60.052	60.307	1382	9/22/2009		9/22/2019		7,172	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	No	Low	Medium
1683	569	1209-01	0.922	1.042	629	12/17/2004	12/1/2010	12/1/2017		7,169	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	No	Low	Medium
1684	570	1209-01	3.113	3.236	647	5/19/2010	12/1/2010	12/1/2017		7,169	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	No	Low	Medium
1685	1000	195A4-2	0.181	0.371	1006	6/12/2008		6/12/2018		7,164	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
1686	145	0405-01	4.041	4.276	1254	12/17/2004	10/31/2006	10/23/2013		7,162	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1687	536	118D	78.031	78.111	922	9/25/2007	12/1/2011	12/1/2018		7,141	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1688	290	0630-01	2.999	3.074	400	12/17/2004	12/16/2010	12/16/2017		7,139	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	No	Low	Medium
1689	1539	DFDS7095	0.000	0.002	11	11/19/2010	11/11/2011	11/11/2018		7,126	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1690	1107	300A	453.820	454.333	2651	12/17/2004	9/10/2009	9/10/2014	*	7,115	ILI, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1691	1394	BD549	0.000	0.014	96	9/13/2010	11/11/2011	11/11/2018		7,115	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1692	1667	GCUST5845	0.334	0.390	298	12/17/2004	12/4/2009	12/4/2016		7,113	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1693	362	1024-01	0.148	0.286	726	12/17/2004	10/20/2008	10/20/2015		7,113	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1694	573	1209-02	0.397	0.531	714	12/17/2004	12/1/2010	12/1/2017		7,112	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1695	1643	GCUST5755	0.000	0.005	25	12/17/2004	3/23/2009	3/23/2016		7,083	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Low
1696	519	118A-1	0.122	0.192	354	11/22/2008	12/1/2011	12/1/2018		7,077	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1697	850	169-101	3.126	3.280	638	12/2/2008	6/10/2012	6/10/2019		7,052	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	No	Low	Medium
1698	593	123	3.485	3.751	1407	12/17/2004	2/14/2007	12/31/2013		7,037	ECDA, ICDA, HYDRO, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	No	Low	Medium
1699	1071	2408-11	7.187	7.290	535	12/17/2004	9/2/2010	9/2/2017		7,025	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1700	1092	300A	245.796	248.410	13940	12/17/2004	5/3/2014	5/3/2014	*	7,016	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1701	387	1035-05	5.993	6.117	657	12/21/2011		12/21/2021		7,003	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1702	1231	401	339.168	340.059	4718	12/17/2004	7/16/2012	7/16/2017	*	6,986	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Master HCA	ROUTE	Begin Milepoint	End Milepoint	Footage	Date HCA Identified	Master HCA Last Assessment Date	Master HCA Assessment Due Date	Multi Dates	Risk	Assessment Methods	EC THREAT	SCC THREAT	IC THREAT	MANUF. (SEAM) THREAT	MANUF. (BODY OF PIPE) THREAT	CONST. THREAT	TPD THREAT	WROF THREAT	EQUIP THREAT	IO THREAT
1703	1522	DF9009	0.000	0.002	12	5/1/2006	12/4/2009	12/4/2016		6,958	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1704	381	1035-05	2.165	2.309	759	11/4/2010		11/4/2020		6,940	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1705	1220	400	144.052	145.189	6067	12/17/2004	11/13/2010	11/13/2015		6,930	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1706	735	1501-02	0.970	1.087	619	9/22/2010	4/18/2011	4/18/2018		6,930	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1707	13	0203-01	0.547	0.811	1392	12/17/2004	3/23/2009	3/23/2016		6,928	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Low
1708	1178	301G	18.000	18.470	2457	12/17/2004	6/21/2011	6/21/2018		6,927	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1709	1725	STUB11135	0.000	0.012	61	6/19/2012		6/19/2022		6,877	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1710	1525	DF9014	0.000	0.004	23	12/17/2004	12/4/2009	12/4/2016		6,871	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1711	1429	DCUST10000	0.000	0.000	3	9/25/2009	12/1/2011	12/1/2018		6,864	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1712	1181	3022-01	0.807	0.966	835	12/17/2004	7/25/2012	7/25/2019		6,853	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1713	794	1609-01	1.921	2.007	457	12/17/2004	8/24/2007	8/24/2014		6,851	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1714	108	021F	1.125	1.470	1818	12/17/2004	12/7/2010	12/7/2017		6,828	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1715	199	057C	0.000	0.008	40	12/23/2008	2/15/2007	2/15/2014		6,768	ILI, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
1716	121	021H	1.820	2.000	977	3/2/2006	10/11/2012	10/11/2019		6,759	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1717	1233	401	327.153	327.637	2571	3/15/2006	7/16/2012	7/16/2017	*	6,735	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1718	763	1521-01	0.558	0.675	618	7/31/2009	3/29/2011	3/29/2018		6,719	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1719	431	108	66.164	66.808	3453	12/17/2004	12/4/2009	12/4/2016	*	6,715	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1720	186	057A-M15	0.282	0.400	617	12/17/2004	7/25/2012	7/25/2019		6,710	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
1721	1102	300A	445.705	446.156	2354	12/17/2004	9/23/2011	9/23/2018		6,708	ILI, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Medium
1722	1411	BD8025	0.000	0.008	42	10/5/2010	4/29/2012	4/29/2019		6,703	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1723	1185	303	25.536	25.658	644	10/12/2011		10/12/2021		6,691	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1724	1142	300B	445.733	446.063	1746	12/17/2004	11/11/2011	11/11/2016		6,676	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Medium
1725	419	108	21.927	22.310	2023	10/21/2011	8/20/2012	8/20/2019		6,674	ILI, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1726	887	173-8	0.977	1.182	1079	5/19/2011		5/19/2021		6,656	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1727	1729	STUB11153	0.000	0.009	47	7/20/2012		7/20/2022		6,636	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1728	885	173-8	0.000	0.132	696	12/19/2008		12/19/2018	*	6,632	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1729	374	103	16.942	17.236	1558	12/17/2004	9/24/2011	9/24/2018		6,597	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1730	1207	331B-2	0.001	0.266	1409	11/12/2010		11/12/2020		6,596	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1731	1445	DCUST6889	0.000	0.015	80	3/7/2006	12/4/2009	12/4/2016		6,589	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1732	1726	STUB11136	0.000	0.016	86	7/2/2012		1/14/2017		6,557	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1733	1248	401	113.571	114.637	5636	12/17/2004	11/2/2011	11/2/2016	*	6,533	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1734	1642	GCUST5754	0.126	0.190	336	12/17/2004	3/23/2009	3/23/2016		6,525	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Low
1735	1472	DF3304	0.000	0.000	20	12/17/2004	12/4/2009	12/4/2016		6,524	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1736	1523	DF9010	0.000	0.002	8	12/17/2004	12/4/2009	12/4/2016		6,523	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1737	120	021H	1.550	1.652	373	3/2/2006	12/7/2010	10/11/2019		6,509	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1738	1022	210A	9.719	9.943	1728	12/17/2004	6/10/2011	6/10/2018		6,501	ILI, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
1739	33	021A	21.750	22.052	1593	12/17/2004	12/7/2010	12/7/2017		6,497	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
1740	1819	STUB9073	0.000	0.006	23	12/12/2008	2/15/2007	2/15/2014		6,481	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
1741	139	0401-01	0.000	0.018	60	6/23/2010	6/5/2012	6/5/2019		6,446	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1742	1247	401	139.688	140.387	3679	12/17/2004	11/2/2011	11/2/2016		6,439	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1743	198	057C	0.008	0.265	1347	12/23/2008	2/15/2007	2/15/2014		6,436	ILI, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
1744	1215	400	262.930	263.576	3387	12/17/2004	11/13/2010	11/13/2015		6,399	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1745	1526	DF9198	0.000	0.004	21	11/2/2010		11/2/2020		6,391	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1746	1659	GCUST5827	0.000	0.010	55	12/17/2004	2/16/2007	2/16/2014		6,385	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1747	426	108	59.556	59.805	1330	9/22/2009		9/22/2019	*	6,369	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	No	Low	Medium
1748	659	132	34.556	35.111	2972	12/17/2004	4/22/2007	4/22/2014	*	6,314	ILI, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
1749	1285	7205-01	2.988	3.071	436	10/3/2007	12/1/2011	12/1/2018		6,303	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1750	1449	DCUST8231	0.000	0.259	1366	3/15/2006	12/4/2009	12/4/2016		6,295	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1751	1396	BD616	0.022	0.023	1	11/22/2010		8/30/2018		6,288	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1752	1366	BD10816	0.000	0.002	9	10/5/2010	4/29/2012	4/29/2019		6,286	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1753	271	0617-10	2.787	3.118	1749	10/23/2007	7/25/2012	7/25/2019		6,275	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1754	768	1523-01	2.262	2.577	1666	2/18/2007	8/20/2012	8/20/2019	*	6,266	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1755	126	021H	4.380	4.474	655	11/15/2010		11/15/2020		6,251	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1756	1049	220	24.287	24.510	1169	9/13/2011	5/3/2012	5/3/2019		6,239	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1757	1625	DREG7562	0.132	0.218	455	3/14/2006	2/1/2010	2/1/2017		6,212	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1758	250	0615-02	0.138	0.162	129	12/17/2004	4/7/2010	4/7/2017		6,190	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1759	629	1302-01	0.452	0.850	2156	12/17/2004	12/7/2010	12/7/2017	*	6,135	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1760	1219	400	145.666	146.140	2532	12/17/2004	11/13/2010	11/13/2015		6,118	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1761	1832	X11258	0.000	0.007	40	8/10/2012		8/10/2022		6,113	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Low
1762	1234	401	325.854	326.921	5598	12/17/2004	7/16/2012	7/16/2017	*	6,109	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1763	398	105N	12.650	13.297	2939	12/17/2004	11/4/2012	11/4/2019		6,103	ILI, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
1764	1239	401	266.076	267.438	7200	12/17/2004	11/2/2011	11/2/2016	*	6,103	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1765	119	021H	1.070	1.520	2390	12/17/2004	12/7/2010	12/7/2017		6,092	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1766	514	118A	75.226	75.358	698	12/17/2004	8/6/2007	8/6/2014		6,087	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1767	418	108	21.110	21.580	2479	12/17/2004	8/20/2012	8/20/2019		6,062	ILI, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1768	273	0617-10	5.379	5.787	2158	8/23/2008	7/25/2012	7/25/2019		6,027	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1769	1228	401	390.391	390.910	2734	12/17/2004	7/16/2012	7/16/2017		5,941	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1770	1268	402	32.683	32.872	997	12/17/2004	11/12/2012	11/12/2019		5,888	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
1771	857	172A	35.510	35.850	1786	12/2/2008	4/29/2012	4/29/2017		5,810	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
1772	1416	BD8772	0.000	354.021	120	10/7/2010	11/11/2011	11/11/2018		5,798	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1773	411	108	12.434	12.895	2431	10/21/2011	8/20/2012	8/20/2019		5,765	ILI, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1774	1249	401	83.812	85.040	6454	12/17/2004	11/2/2011	11/2/2016	*	5,762	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1775	584	121	10.504	10.720	1194	12/17/2004	2/16/2007	2/16/2014		5,754	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
1776	1072	2408-12	7.149	7.320	977	12/17/2004	9/2/2010	9/2/2017		5,701	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1777	1881	X6923	0.000	0.000	5	9/17/2009	7/25/2012	7/25/2019		5,668	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	No	Low	Medium
1778	1882	X6924	0.000	0.000	5	9/17/2009	7/25/2012	7/25/2019		5,668	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	No	Low	Medium
1779	6	002	129.489	129.920	2336	3/27/2012		3/27/2022		5,663	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1780	188	057A-MC79D	0.000	0.152	863	4/4/2012		4/4/2022		5,614	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
1781	97	021F	21.082	21.160	372	10/10/2006	12/7/2010	12/7/2017		5,613	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1782	270	0617-10	2.368	2.565	1045	10/23/2007	7/25/2012	7/25/2019		5,593	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1783	272	0617-10	4.288	4.471	969	8/23/2008	7/25/2012	7/25/2019		5,593	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Master HCA	ROUTE	Begin Milepoint	End Milepoint	Footage	Date HCA Identified	Master HCA Last Assessment Date	Master HCA Assessment Due Date	Multi Dates	Risk	Assessment Methods	EC THREAT	SCC THREAT	IC THREAT	MANUF. (SEAM) THREAT	MANUF. (BODY OF PIPE) THREAT	CONST. THREAT	TPD THREAT	WROF THREAT	EQUIP THREAT	IO THREAT
1784	1084	300A	187.854	188.408	2934	12/17/2004	11/11/2011	11/11/2016		5,563	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	No	Low	Medium
1785	35	021A	26.261	26.551	1698	11/15/2011		11/15/2021		5,516	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
1786	1246	401	143.176	143.826	3501	12/17/2004	11/2/2011	11/2/2016	*	5,515	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1787	721	147	0.856	1.463	3456	12/17/2004	10/8/2009	10/8/2016	*	5,512	ILI, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Low
1788	29	021A	13.578	13.789	1140	12/17/2004	12/7/2010	12/7/2017		5,502	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
1789	1122	300B	150.198	150.775	3117	12/17/2004	11/11/2011	11/11/2016		5,485	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1790	360	1023-01	0.000	0.698	3686	12/17/2004	11/12/2012	11/12/2019		5,443	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1791	1240	401	262.889	263.606	3785	12/17/2004	11/2/2011	11/2/2016	*	5,437	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1792	122	021H	2.248	2.352	912	12/17/2004	10/11/2012	10/11/2019		5,429	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1793	123	021H	2.457	2.588	1146	12/17/2004	10/11/2012	10/11/2019		5,429	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1794	888	173-8	2.113	2.288	900	12/19/2008		12/19/2018		5,425	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1795	1349	7227-01	3.341	3.701	1906	12/17/2004	12/13/2010	12/13/2017		5,421	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1796	412	108	13.634	13.811	882	8/21/2012	8/20/2012	8/20/2019		5,414	ILI, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1797	1583	DREG4567	0.001	0.140	76	12/17/2004	3/10/2007	12/31/2014		5,414	ECDA, HYDRO, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
1798	189	057A-MC79S	0.000	0.160	849	4/4/2012		4/4/2022		5,400	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
1799	598	123	11.080	11.550	2505	10/19/2007	8/20/2012	8/20/2019		5,345	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	No	Low	Medium
1800	1782	STUB7838	0.000	0.002	9	10/4/2005	12/7/2010	12/7/2017		5,327	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1801	752	1518-03	1.654	1.820	878	5/23/2011		5/23/2021		5,315	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1802	1164	301A	24.445	24.768	1668	12/17/2004	12/1/2006	12/1/2013		5,284	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1803	132	021H	7.090	7.237	747	12/17/2004	10/11/2012	10/11/2019		5,249	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1804	L057C-LC	057C	0.265	6.413	32479	5/1/2008		5/1/2015		5,236	ILI, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
1805	183	057A	9.789	10.185	2089	2/16/2006	12/6/2011	12/6/2018		5,226	ILI, SCCDA, P&M	Yes	Yes	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
1806	1785	STUB7941	0.000	0.002	2	12/17/2004	3/3/2006	3/3/2013		5,164	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1807	1786	STUB7942	0.000	0.002	2	12/17/2004	3/3/2006	3/3/2013		5,164	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
1808	1355	7227-05	0.000	0.051	254	12/17/2004	12/13/2010	12/13/2017	*	5,109	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1809	L108-LC	108	50.683	61.666	54002	9/29/2008		9/29/2015		5,098	P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
1810	886	173-8	0.227	0.368	743	7/29/2010		7/29/2020		5,071	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1811	127	021H	4.519	4.634	809	12/17/2004	10/11/2012	10/11/2019		5,047	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1812	1	002	71.855	72.247	2085	11/10/2010		11/10/2020		5,016	ILI, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1813	655	132	30.669	31.005	1995	12/17/2004	10/8/2009	10/8/2016	*	5,015	ILI, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
1814	1495	DF3432	0.000	0.005	25	12/17/2004	11/8/2006	11/8/2013		4,934	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1815	289	0630-01	3.509	3.684	933	12/17/2004	12/16/2010	12/16/2017		4,897	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	No	Low	Medium
1816	2	002	76.192	76.687	2646	12/17/2004	5/15/2008	5/15/2015		4,821	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1817	800	1611-03	3.000	3.159	835	12/17/2004	12/4/2009	12/4/2016		4,820	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1818	753	1518-03	3.812	3.976	943	9/22/2009	8/20/2012	8/20/2019		4,805	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1819	579	121	9.679	9.803	717	12/17/2004	2/16/2007	2/16/2014		4,801	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1820	1244	401	145.591	146.208	3274	12/17/2004	11/2/2011	11/2/2016		4,797	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
1821	1455	DF11087	0.000	0.002	11	6/19/2012		11/4/2019		4,734	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1822	1238	401	302.957	303.994	5497	10/27/2007	11/2/2011	11/2/2016	*	4,734	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
1823	416	108	17.336	17.711	1977	12/17/2004	8/20/2012	8/20/2019		4,726	ILI, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1824	1712	STUB10859	0.000	0.001	3	8/21/2012		8/21/2022		4,719	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
1825	345	101	12.450	12.612	918	12/17/2004	11/3/2011	11/3/2018		4,623	ILI, P&M	Yes	No	Yes	No	Stable	Stable	Yes	Yes	Low	Low
1826	1838	X6378	0.000	0.004	22	12/17/2004	11/4/2012	11/4/2019		4,525	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1827	1021	210A	9.632	9.719	675	12/17/2004	6/10/2011	6/10/2018		4,523	ILI, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
1828	609	124B	0.258	0.544	1498	12/19/2008		12/19/2018	*	4,512	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
1829	436	109	2.870	2.926	256	12/17/2004	3/23/2009	3/23/2016		4,489	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1830	1035	210C	22.701	23.930	2785	8/26/2008		8/26/2018		4,434	ILI, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1831	444	109	21.630	21.758	677	12/17/2004	7/30/2012	7/30/2019		4,406	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
1832	L407-LC	407	0.000	0.538	2838	11/5/2010		12/31/2013		4,168	ILI, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1833	751	1518-02	0.009	1.781	9391	10/10/2007	8/20/2012	8/20/2019		4,165	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1834	1751	STUB6110	12.790	12.790	3	3/13/2007	4/7/2010	4/7/2017		4,083	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1835	451	109	33.429	34.073	3429	12/17/2004	3/23/2009	3/23/2016		4,064	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Low
1836	1531	DFDS3626	0.000	0.001	8	12/17/2004	10/8/2009	10/8/2016		4,029	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1837	L406-LC	406	0.000	13.827	73220	11/5/2010		12/31/2013		3,975	ILI, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1838	1184	303	26.778	27.321	2815	3/14/2006	11/16/2011	11/16/2018		3,891	ILI, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1839	133	021H	7.487	7.660	886	12/17/2004	10/11/2012	10/11/2019		3,857	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1840	652	132	23.841	24.235	2066	12/17/2004	10/8/2009	11/5/2018		3,751	ILI, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Low
1841	1520	DF8818	0.000	0.004	20	12/17/2004	10/1/2007	10/1/2014		3,520	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1842	1521	DF8819	0.000	0.004	20	12/17/2004	10/1/2007	10/1/2014		3,520	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1843	1841	X6384	0.000	0.006	30	12/17/2004	10/1/2007	10/1/2014		3,520	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
1844	1516	DF8185	0.000	0.002	10	12/19/2008	8/20/2012	8/20/2019		3,364	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1845	1284	7205-01	2.745	2.851	556	11/10/2010	12/1/2011	12/1/2018		3,357	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1846	861	173	0.005	0.007	10	11/22/2008	6/26/2012	6/26/2019		3,296	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
1847	599	123	11.971	12.569	3331	3/22/2006	8/20/2012	8/20/2019	*	3,094	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	No	Low	Medium
1848	L057C-LC	STUB9071	0.000	0.000	34	5/1/2008		5/1/2015		2,152	ILI, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
1849	L057C-LC	STUB9072	0.000	0.000	9	5/1/2008		5/1/2015		1,666	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium

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	Redacted	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1		Last Assessment Date	Assessment Due Date	Risk	Assessment Tools	EC THREAT	SCC THREAT	IC THREAT	MANUF. (SEAM) THREAT	MANUF. (BODY OF PIPE) THREAT	CONST. THREAT	TPD THREAT	WROF THREAT	EQUIP THREAT	IO THREAT
2			12/31/2015	17,635	ECDA, Hydro, ICDA, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	Yes	Low	Medium
3		6/5/2012	6/5/2019	17,533	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
4		11/18/2008	11/18/2015	16,728	ECDA, Hydro, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
5		6/5/2012	6/5/2019	16,530	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
6		11/18/2008	11/18/2015	16,164	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
7		6/5/2012	6/5/2019	15,043	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
8			12/31/2017	15,001	ECDA, P&M	Yes	No	No	Stable	Stable	Unstable	Yes	Yes	Low	Medium
9		2/8/2011	2/8/2018	14,515	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
10		11/18/2008	11/18/2015	14,451	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
11		2/14/2012	2/14/2017	14,420	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
12		6/5/2012	6/5/2019	14,397	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
13		2/8/2011	2/8/2018	14,000	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
14		11/18/2008	11/18/2015	13,979	ECDA, Hydro, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
15		6/5/2012	6/5/2019	13,969	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
16		11/18/2008	11/18/2015	13,954	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
17		2/8/2011	2/8/2018	13,841	ECDA, Hydro, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
18		4/24/2010	4/24/2017	13,787	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
19		6/5/2012	6/5/2019	13,784	ECDA, Hydro, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
20			12/31/2016	13,726	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
21		2/8/2011	2/8/2018	13,612	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
22		6/5/2012	6/5/2019	13,430	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
23		6/5/2012	6/5/2019	13,122	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
24		2/8/2011	2/8/2018	13,006	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
25		4/24/2010	4/24/2017	12,980	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
26		1/14/2010	1/14/2017	12,919	ECDA, Hydro, ICDA, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	Yes	Low	Medium
27		6/5/2012	6/5/2019	12,901	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
28		6/5/2012	6/5/2019	12,874	ECDA, Hydro, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
29		1/14/2010	1/14/2017	12,851	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
30		4/24/2010	4/24/2017	12,834	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
31		4/24/2010	4/24/2017	12,792	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
32			12/31/2017	12,700	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
33		2/8/2011	2/8/2018	12,582	ECDA, Hydro, ICDA, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	Yes	Low	Medium
34		11/18/2008	11/18/2015	12,553	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
35		6/5/2012	6/5/2019	12,468	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
36		11/18/2008	11/18/2015	12,431	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
37		1/14/2010	1/14/2017	12,406	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
38		11/18/2008	11/18/2015	12,396	ECDA, Hydro, ICDA, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	Yes	Low	Medium
39		2/8/2011	2/8/2018	12,393	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
40		6/5/2012	6/5/2019	12,334	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
41		6/5/2012	11/18/2015	12,334	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	No	Low	Medium
42		11/18/2008	11/18/2015	12,257	ECDA, Hydro, P&M	Yes	No	No	Unstable	No	No	Yes	Yes	Low	Medium
43		1/14/2010	1/14/2017	12,160	ECDA, Hydro, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
44		11/18/2008	11/18/2015	12,133	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
45		2/8/2011	2/8/2018	11,854	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
46		6/5/2012	6/5/2019	11,787	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
47		6/5/2012	6/5/2019	11,735	ECDA, Hydro, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
48		2/8/2011	2/8/2018	11,645	ECDA, Hydro, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
49		4/24/2010	4/24/2017	11,642	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
50		4/24/2010	4/24/2017	11,586	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
51			12/31/2017	11,580	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
52		11/18/2008	11/18/2015	11,572	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
53		1/14/2010	1/14/2017	11,527	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
54		2/8/2011	2/8/2018	11,499	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
55		6/5/2012	6/5/2019	11,491	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	No	Low	Medium
56		1/14/2010	1/14/2017	11,360	ECDA, Hydro, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
57		11/18/2008	11/18/2015	11,338	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
58		11/18/2008	11/18/2015	11,280	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
59		2/14/2012	2/14/2017	11,275	ECDA, Hydro, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Redacted		Last Assessment Date	Assessment Due Date	Risk	Assessment Tools	EC THREAT	SCC THREAT	IC THREAT	MANUF. (SEAM) THREAT	MANUF. (BODY OF PIPE) THREAT	CONST. THREAT	TPD THREAT	WROF THREAT	EQUIP THREAT	IO THREAT
60			6/5/2012	6/5/2019	11,217	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
61			6/5/2012	6/5/2019	11,176	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
62			1/14/2010	1/14/2017	11,169	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
63			1/14/2010	1/14/2017	11,169	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
64				12/31/2017	11,120	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
65			11/18/2008	11/18/2015	10,983	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
66			4/24/2010	4/24/2017	10,946	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
67				12/31/2017	10,879	ECDA, Hydro, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
68			1/14/2010	1/14/2017	10,871	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
69				12/31/2017	10,860	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
70			1/14/2010	1/14/2017	10,821	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
71			2/8/2011	12/31/2017	10,811	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
72			4/24/2010	4/24/2017	10,602	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
73			1/14/2010	7/29/2018	10,562	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
74			6/5/2012	6/5/2019	10,546	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
75			6/5/2012	6/5/2019	10,518	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
76			6/5/2012	6/5/2019	10,511	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	No	Low	Medium
77			2/8/2011	2/8/2018	10,418	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Medium
78			2/8/2011	2/8/2018	10,395	ECDA, Hydro, ICDA, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	Yes	Low	Medium
79				12/31/2015	10,325	ECDA, Hydro, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
80			11/18/2008	11/18/2015	10,228	ECDA, Hydro, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	No	Low	Medium
81			6/5/2012	6/5/2019	10,226	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
82			6/5/2012	6/5/2019	10,199	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
83			11/18/2008	11/18/2015	10,166	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Low
84			2/8/2011	2/8/2018	10,094	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
85			1/14/2010	1/14/2017	10,029	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
86			2/8/2011	2/8/2018	9,995	ECDA, SCCDA, P&M	Yes	Yes	No	Stable	Stable	Stable	Yes	No	Low	Medium
87			6/5/2012	6/5/2019	9,977	ECDA, Hydro, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
88			2/8/2011	2/8/2018	9,887	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
89			6/5/2012	6/5/2019	9,869	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
90				12/31/2017	9,766	ECDA, Hydro, ICDA, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	Yes	Low	Low
91			6/5/2012	6/5/2019	9,724	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
92			1/14/2010	1/14/2017	9,693	ECDA, Hydro, P&M	Yes	No	No	Unstable	No	No	Yes	Yes	Low	Low
93			1/14/2010	1/14/2017	9,682	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	No	Low	Medium
94			6/5/2012	6/5/2019	9,671	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
95			4/24/2010	4/24/2017	9,510	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
96				12/31/2017	9,502	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
97			11/18/2008	11/18/2015	9,466	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Low
98			6/5/2012	6/5/2019	9,410	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
99			6/5/2012	6/5/2019	9,281	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
100			6/5/2012	6/5/2019	9,257	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
101				12/31/2017	9,154	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
102			10/18/2007	10/18/2014	9,108	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Low
103			1/14/2010	1/14/2017	8,846	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
104			11/18/2008	11/18/2015	8,811	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
105				12/31/2013	8,756	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
106			6/5/2012	6/5/2019	8,442	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
107				12/31/2019	8,405	ECDA, ICDA, P&M	Yes	No	Yes	Stable	No	No	Yes	Yes	Low	Medium
108			6/5/2012	6/5/2019	8,389	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
109			11/18/2008	11/18/2015	8,365	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
110			1/14/2010	1/14/2017	8,290	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
111			1/14/2010	1/14/2017	8,275	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
112			6/5/2012	6/5/2019	8,267	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
113			6/5/2012	6/5/2019	8,243	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
114				12/31/2017	8,169	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
115				12/31/2019	8,088	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	No	Low	Medium
116			11/18/2008	11/18/2015	8,009	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
117			1/14/2010	1/14/2017	7,972	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Redacted		Last Assessment Date	Assessment Due Date	Risk	Assessment Tools	EC THREAT	SCC THREAT	IC THREAT	MANUF. (SEAM) THREAT	MANUF. (BODY OF PIPE) THREAT	CONST. THREAT	TPD THREAT	WROF THREAT	EQUIP THREAT	IO THREAT
118			6/5/2012	6/5/2019	7,970	ECDA, ICDA, P&M	Yes	No	Yes	Stable	Stable	Stable	Yes	Yes	Low	Medium
119			6/5/2012	6/5/2019	7,962	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
120				12/31/2017	7,945	ECDA, ICDA, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
121			2/8/2011	2/8/2018	7,416	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
122				12/31/2017	7,293	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Low
123			1/14/2010	1/14/2017	6,509	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
124			6/5/2012	6/5/2019	6,446	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
125			2/8/2011	2/8/2018	5,902	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
126			6/5/2012	6/5/2019	5,878	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
127			4/24/2010	4/24/2017	5,080	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Low
128			6/5/2012	6/5/2019	4,805	ECDA, P&M	Yes	No	No	No	No	No	Yes	No	Low	Medium
129			4/24/2010	4/24/2017	3,631	ECDA, ICDA, P&M	Yes	No	Yes	No	Stable	Stable	Yes	Yes	Low	Low

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Table 5: HCA Change Log

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	ROUTE	Begin Milepoint	End Milepoint	New HCA Segment No.	Added Footage	Proposed ASMT Year	Assessment methods	Disqualified Segment No.	Disqualified HCA Footage	Date of Change	HCA Segment Due Date	Change Detail	Reason for Change	Implication Analysis
2	021B	0.95755	1.00000	102.6	224.00	2015	DA			12/3/2012	12/7/2017	Extension of HCA 36	Identified new HCA due to new construction	Added to Integrity Management BAP Assessment Schedule
3	021B	1.00000	1.02539	103	140.00	2015	DA			12/3/2012	12/7/2017	Extension of HCA 36	Identified new HCA due to new construction	Added to Integrity Management BAP Assessment Schedule
4	021F	16.86107	16.95933	140.8	817.00	2013	DA			10/25/2012	10/25/2022	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
5	108	61.66887	62.79686	179.61	2820.00	2020	DA			11/26/2012	12/31/2014	Extension of HCA 429	New pipe installation	Added to Integrity Management BAP Assessment Schedule
6	108	62.93744	63.45780	179.63	881.00	2020	DA			11/26/2012	12/31/2015	Extension of HCA 430	New pipe installation	Added to Integrity Management BAP Assessment Schedule
7	109	6.96690	7.02279	120.91	293.00	2015	DA			11/27/2012	1/12/2014	Extension of HCA 435	HCA extension	Added to Integrity Management BAP Assessment Schedule
8	109	7.02279	7.57198	122	616.00	2015	DA			11/27/2012	1/12/2014	Extension of HCA 438	New pipe installation	Added to Integrity Management BAP Assessment Schedule
9	109	7.02279	7.57198	121	42.00	2015	DA			11/27/2012	1/12/2014	Extension of HCA 435	New pipe installation	Added to Integrity Management BAP Assessment Schedule
10	173-8	1.88721	2.11283	115	1189.00	2014	DA			11/28/2012	12/19/2018	Extension of Master HCA 888	HCA Extension	Added to Integrity Management BAP Assessment Schedule
11	1816-01	1.21722	1.23344	207	86.00	2019	DA			11/27/2012	8/23/2018	Extension of Master HCA 926	HCA Extension	Added to Integrity Management BAP Assessment Schedule
12	181A	15.31320	15.31620	100.4	22.00	2020	DA			11/26/2012		New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
13	181A	15.31620	15.32667	101	55.00	2020	DA			11/26/2012		New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
14	181A	15.32667	15.32878	101.5	11.00	2020	DA			11/26/2012		New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
15	181A	15.32878	15.32964	102	5.00	2020	DA			11/26/2012		New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
16	181A	15.32964	15.35129	103	143.00	2020	DA			11/26/2012		New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
17	181A	15.35129	15.44490	104	494.00	2020	DA			11/26/2012		New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
18	181A	16.59561	16.70454	104.6	575.00	2020	DA			11/26/2012		New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
19	181B	6.80216	6.83000	111.2	150.00	2020	DA			11/27/2012	11/27/2012	New HCA	Identified new HCA due to updated building occupancy information	Added to Integrity Management BAP Assessment Schedule
20	181B	6.83000	7.00000	111.5	914.00	2020	DA			11/27/2012	11/27/2022	New HCA	Identified new HCA due to updated building occupancy information	Added to Integrity Management BAP Assessment Schedule

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	ROUTE	Begin Milepoint	End Milepoint	New HCA Segment No.	Added Footage	Proposed ASMT Year	Assessment methods	Disqualified Segment No.	Disqualified HCA Footage	Date of Change	HCA Segment Due Date	Change Detail	Reason for Change	Implication Analysis
21	181B	7.00000	7.02421	112	130.00	2020	DA			11/27/2012	11/27/2022	New HCA	Identified new HCA due to updated building occupancy information	Added to Integrity Management BAP Assessment Schedule
22	181B	7.02421	7.04724	112.02	124.00	2020	DA			11/27/2012	11/27/2012	New HCA	Identified new HCA due to updated building occupancy information	Added to Integrity Management BAP Assessment Schedule
23	187	56.98132	57.00567	152.9	129.00	2013	DA			11/19/2012	12/4/2013	Extension of Master HCA 981	HCA extension	Added to Integrity Management BAP Assessment Schedule
24	191-1	9.91985	9.92208	101.15	11.81	2016	DA			10/29/2012	7/19/2019	Extension of Master HCA 997	New pipe installation	Added to Integrity Management BAP Assessment Schedule
25	191-1	9.92208	9.92438	101.17	12.19	2016	DA			10/29/2012	7/19/2019	Extension of Master HCA 997	New pipe installation	Added to Integrity Management BAP Assessment Schedule
26	210B	11.42567	11.43120	109.05	30.00	2019	ILI			11/28/2012	5/21/2019	Extension of Master HCA 1032	New pipe installation	Added to Integrity Management BAP Assessment Schedule
27	2405-01	0.54748	0.54804	123.7	3.00	2016	DA			10/29/2012	2/1/2017	Extension of Master HCA 1057	New pipe installation	Added to Integrity Management BAP Assessment Schedule
28	2405-01	0.61131	0.61286	126	8.00	2016	DA			10/29/2012	2/1/2017	Extension of Master HCA 1058	New pipe installation	Added to Integrity Management BAP Assessment Schedule
29	2408-05	3.13670	3.20629	119	470.00	2015	DA			10/29/2012	6/21/2022	Extension of Master HCA 1061	New pipe installation	Added to Integrity Management BAP Assessment Schedule
30	300A	276.04631	276.33096	238.53	1395.00	2018	ILI			12/20/2012	3/29/2019	Extension of Master HCA 1095	HCA Extension	Added to Integrity Management BAP Assessment Schedule
31	300B	242.67401	242.67386	258.3	3.00	2016	DA			12/3/2012	12/31/2014	Extention of HCA 1130	New pipe installation	Added to Integrity Management BAP Assessment Schedule
32	400-6	0.00000	0.00182	101	9.00	2019	DA			12/20/2012	12/20/2022	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
33	400-6	0.00182	0.19181	102	952.00	2019	DA			12/20/2012	12/20/2022	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
34	BD11251	0.00000	0.00133	100	7.00	2018	DA			11/5/2012	11/5/2022	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
35	BD11251	0.00133	0.00192	101	3.00	2018	DA			11/5/2012	11/5/2022	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
36	BD11251	0.00192	0.00360	102	9.00	2018	DA			11/5/2012	11/5/2022	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
37	BD11252	0.00000	0.00133	200	7.00	2018	DA			11/5/2012	11/5/2022	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
38	BD11252	0.00133	0.00209	201	4.00	2018	DA			11/5/2012	11/5/2022	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
39	BD11252	0.00209	0.00379	202	9.00	2018	DA			11/5/2012	11/5/2022	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	ROUTE	Begin Milepoint	End Milepoint	New HCA Segment No.	Added Footage	Proposed ASMT Year	Assessment methods	Disqualified Segment No.	Disqualified HCA Footage	Date of Change	HCA Segment Due Date	Change Detail	Reason for Change	Implication Analysis
40	BD11253	0.00000	0.00152	300	8.00	2018	DA			11/5/2012	11/5/2022	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
41	BD11253	0.00152	0.00436	301	15.00	2018	DA			11/5/2012	11/5/2022	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
42	BD11254	0.00000	0.00152	400	8.00	2018	DA			11/5/2012	11/5/2022	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
43	BD11254	0.00152	0.00436	401	15.00	2018	DA			11/5/2012	11/5/2022	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
44	BD13562	0.00000	0.00100	100	5.00	2019	DA			11/20/2012	11/20/2022	New HCA	Identified new HCA due to updated building occupancy information	Added to Integrity Management BAP Assessment Schedule
45	BD13574	0.00000	0.00097	100	5.00	2016	DA			12/26/2012	12/26/2022	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
46	BD13574	0.00097	0.00455	101	19.00	2016	DA			12/26/2012	12/26/2022	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
47	BD464	0.00100	0.00000	100	5.30	2016	DA			11/20/2012	11/18/2018	Extension of HCA 1390	HCA extension	Added to Integrity Management BAP Assessment Schedule
48	BD464	0.00101	0.00000	102	5.32	2016	DA			11/20/2012	11/18/2018	Extension of HCA 1390	HCA extension	Added to Integrity Management BAP Assessment Schedule
49	BD464	0.00180	0.00101	102.5	4.18	2016	DA			11/20/2012	11/18/2018	Extension of HCA 1390	HCA extension	Added to Integrity Management BAP Assessment Schedule
50	BD464	0.01400	0.01592	101.5	10.00	2016	DA			11/20/2012	11/11/2018	Extension of HCA 1390	New pipe installation	Added to Integrity Management BAP Assessment Schedule
51	BD464	0.01400	0.00100	101	67.50	2016	DA			11/20/2012	11/18/2018	Extension of HCA 1390	HCA extension	Added to Integrity Management BAP Assessment Schedule
52	BD464	0.09651	0.09698	103	2.00	2016	DA			11/20/2012	11/11/2018	Extension of HCA 1390	New pipe installation	Added to Integrity Management BAP Assessment Schedule
53	BD464	0.09698	0.09898	104	16.00	2016	DA			11/20/2012	11/11/2018	Extension of HCA 1390	New pipe installation	Added to Integrity Management BAP Assessment Schedule
54	BD549	0.00000	0.00084	261	6.00	2016	DA			12/26/2012	11/11/2018	Extension of HCA 1394	New pipe installation	Added to Integrity Management BAP Assessment Schedule
55	BD549	0.00084	0.00149	261.8	5.00	2016	DA			12/26/2012	11/11/2018	Extension of HCA 1394	New pipe installation	Added to Integrity Management BAP Assessment Schedule
56	BD549	0.00149	0.00344	262.5	14.00	2016	DA			11/20/2012	11/11/2018	Extension of HCA 1394	New pipe installation	Added to Integrity Management BAP Assessment Schedule
57	BD549	0.01306	0.01353	265	5.00	2016	DA			11/20/2012	11/11/2018	Extension of HCA 1394	New pipe installation	Added to Integrity Management BAP Assessment Schedule
58	DFDS13557	0.00000	0.00375	101	20.00	2019	DA			12/4/2012	12/4/2022	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	ROUTE	Begin Milepoint	End Milepoint	New HCA Segment No.	Added Footage	Proposed ASMT Year	Assessment methods	Disqualified Segment No.	Disqualified HCA Footage	Date of Change	HCA Segment Due Date	Change Detail	Reason for Change	Implication Analysis
59	DFDS13557	0.00375	0.00560	102	10.00	2109	DA			12/4/2012	12/4/2022	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
60	DFDS3543	0.00284	0.00297	101	1.00	2013	DA			12/3/2012	12/3/2022	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
61	DFDS3543	0.00297	0.00322	102	2.00	2013	DA			12/3/2012	12/3/2022	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
62	DREG4388	0.00210	0.00285	122	4.00	2014	DA			10/23/2012	8/6/2014	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
63	STUB11273	0.00000	0.00170	100	9.00	2018	ILI			11/7/2012	11/7/2022	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
64	STUB11273	0.00170	0.01136	101	51.00	2018	ILI			11/7/2012	11/7/2012	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
65	STUB11332	0.00000	0.00693	100	36.00	2019	ILI			10/23/2012	10/23/2022	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
66	STUB11332	0.00693	0.01098	101	21.00	2019	ILI			10/23/2012	10/23/2022	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
67	STUB11358	0.00000	0.00096	100	5.00	2016	ILI			11/7/2012	11/7/2022	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
68	STUB11358	0.00096	0.00227	100.5	7.00	2016	ILI			11/7/2012	11/7/2022	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
69	STUB11358	0.00227	0.00631	101	21.00	2016	ILI			11/7/2012	11/7/2022	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
70	STUB11358	0.00631	0.00972	102	18.00	2016	ILI			11/7/2012	11/7/2022	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
71	STUB11457	0.00000	0.00000	100	1.00	2017	DA			11/6/2012	11/6/2022	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
72	STUB11457	0.00000	0.00000	101	1.00	2017	DA			11/6/2012	11/6/2022	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
73	X11102	0.00200	0.00056	501	14.37	2019	DA			10/31/2012	10/2/2019	Extention of HCA 1827	HCA extension	Added to Integrity Management BAP Assessment Schedule
74	X6379	0.00842	0.00859	502.3	1.00	2017	DA			10/25/2012	2/18/2013	Extention of HCA 1839	New pipe installation	Added to Integrity Management BAP Assessment Schedule
75	X6379	0.00859	0.01062	502.4	11.00	2017	DA			10/25/2012	2/18/2013	Extension of HCA 1839	New pipe installation	Added to Integrity Management BAP Assessment Schedule
76	X6379	0.18449	0.18563	503.2	6.00	2017	DA			10/25/2012	2/18/2013	Extention of HCA 1839	New pipe installation	Added to Integrity Management BAP Assessment Schedule
77	X6379	0.18563	0.18601	503.4	3.00	2017	DA			10/25/2012	2/18/2013	Extention of HCA 1839	New pipe installation	Added to Integrity Management BAP Assessment Schedule
78	X6379	0.18601	0.18677	503.6	4.00	2017	DA			10/25/2012	2/18/2013	Extension of HCA 1839	New pipe installation	Added to Integrity Management BAP Assessment Schedule

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	ROUTE	Begin Milepoint	End Milepoint	New HCA Segment No.	Added Footage	Proposed ASMT Year	Assessment methods	Disqualified Segment No.	Disqualified HCA Footage	Date of Change	HCA Segment Due Date	Change Detail	Reason for Change	Implication Analysis
79	X6379	0.18677	0.19036	503.8	19.00	2017	DA			10/25/2012	2/18/2013	Extension of HCA 1839	New pipe installation	Added to Integrity Management BAP Assessment Schedule
80	X6428	0.00265	0.00398	604	7.00	2015	DA			9/24/2012	9/2/2017	Extension of HCA1847	New pipe installation	Added to Integrity Management BAP Assessment Schedule
81	X6428	0.00398	0.00511	606	6.00	2015	DA			9/24/2012	9/2/2017	Extension of HCA1847	New pipe installation	Added to Integrity Management BAP Assessment Schedule
82	X6428	0.00511	0.02936	608	128.00	2015	DA			9/24/2012	9/2/2017	Extension of HCA1847	Pipe split for pipe replacement project	Added to Integrity Management BAP Assessment Schedule
83	X6428	0.12652	0.12879	620	12.00	2015	DA			9/24/2012	9/2/2017	Extension of HCA1847	New pipe installation	Added to Integrity Management BAP Assessment Schedule
84	X6428	0.16553	0.16629	624	4.00	2015	DA			9/24/2012	9/2/2017	Extension of HCA1847	New pipe installation	Added to Integrity Management BAP Assessment Schedule
85	X6428	0.17159	0.17405	628	13.00	2015	DA			9/24/2012	9/2/2017	Extension of HCA1847	New pipe installation	Added to Integrity Management BAP Assessment Schedule
86	X6458	0.00049	0.00176	501	14.00	2019	DA			10/31/2012	10/2/2019	Extention of HCA 1858	HCA Extension	Added to Integrity Management BAP Assessment Schedule
87	X6463	0.00000	0.00012	101	3.00	2014	DA			10/15/2012	12/4/2016	Extention of HCA 1862	New pipe installation	Added to Integrity Management BAP Assessment Schedule
88	X6463	0.00012	0.00040	102	2.00	2014	DA			10/15/2012	12/4/2016	Extention of HCA 1862	New pipe installation	Added to Integrity Management BAP Assessment Schedule
89	X6463	0.00040	0.00283	101.01	12.00	2014	DA			10/15/2012	12/4/2016	Extention of HCA 1862	New pipe installation	Added to Integrity Management BAP Assessment Schedule
90	X6477	5.88000	5.88247	502	13.00	2020	DA			11/26/2012	11/26/2022	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
91	X6477	5.88000	5.88000	501	5.86	2020	DA			11/26/2012	11/26/2022	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
92	X6477	5.88247	5.88339	503	5.00	2020	DA			11/26/2012	11/26/2022	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule
93	X9011	0.00000	0.00020	101	3.00	2014	DA			10/15/2012	12/4/2014	Extention of HCA 1893	New pipe installation	Added to Integrity Management BAP Assessment Schedule
94	X9011	0.00020	0.00040	101.05	2.00	2014	DA			10/15/2012	12/4/2014	Extention of HCA 1893	New pipe installation	Added to Integrity Management BAP Assessment Schedule
95	X9011	0.00040	0.00264	101.1	5.00	2014	DA			10/15/2012	12/4/2014	Extention of HCA 1893	New pipe installation	Added to Integrity Management BAP Assessment Schedule
96	1301-01	0.01477	0.02027					124.15	29			Changed to Distribution piping	Transdef Updates due to Manufacturing Threat Analysis	Removed from Transmission Intergity Management BAP Schedule
97	1301-01	0.02027	0.02083					124.2	3			Changed to Distribution piping	Transdef Updates due to Manufacturing Threat Analysis	Removed from Transmission Intergity Management BAP Schedule

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	ROUTE	Begin Milepoint	End Milepoint	New HCA Segment No.	Added Footage	Proposed ASMT Year	Assessment methods	Disqualified Segment No.	Disqualified HCA Footage	Date of Change	HCA Segment Due Date	Change Detail	Reason for Change	Implication Analysis
98	1301-01	0.02083	0.06000					124.3	317			Changed to Distribution piping	Transdef Updates due to Manufacturing Threat Analysis	Removed from Transmission Intergity Management BAP Schedule
99	1301-01	0.06000	0.14000					124.6	398			Changed to Distribution piping	Transdef Updates due to Manufacturing Threat Analysis	Removed from Transmission Intergity Management BAP Schedule
100	1301-01	0.14000	0.20000					124.9	326			Changed to Distribution piping	Transdef Updates due to Manufacturing Threat Analysis	Removed from Transmission Intergity Management BAP Schedule
101	1301-01	0.20000	0.25716					126	309			Changed to Distribution piping	Transdef Updates due to Manufacturing Threat Analysis	Removed from Transmission Intergity Management BAP Schedule
102	1301-01	0.25716	0.36000					126.1	556			Changed to Distribution piping	Transdef Updates due to Manufacturing Threat Analysis	Removed from Transmission Intergity Management BAP Schedule
103	1301-01	0.36000	0.37000					126.2	26			Changed to Distribution piping	Transdef Updates due to Manufacturing Threat Analysis	Removed from Transmission Intergity Management BAP Schedule
104	1301-01	0.37000	0.39000					126.3	138			Changed to Distribution piping	Transdef Updates due to Manufacturing Threat Analysis	Removed from Transmission Intergity Management BAP Schedule
105	1301-01	0.61000	0.70957					128	513			Changed to Distribution piping	Transdef Updates due to Manufacturing Threat Analysis	Removed from Transmission Intergity Management BAP Schedule
106	1301-01	0.70960	0.71100					128.2	7			Changed to Distribution piping	Transdef Updates due to Manufacturing Threat Analysis	Removed from Transmission Intergity Management BAP Schedule
107	1301-01	0.71098	0.72577					128.5	88			Changed to Distribution piping	Transdef Updates due to Manufacturing Threat Analysis	Removed from Transmission Intergity Management BAP Schedule
108	1301-01	1.44666	1.56610					130.05	632			Changed to Distribution piping	Transdef Updates due to Manufacturing Threat Analysis	Removed from Transmission Intergity Management BAP Schedule
109	1301-01	1.56610	1.56690					130.07	4			Changed to Distribution piping	Transdef Updates due to Manufacturing Threat Analysis	Removed from Transmission Intergity Management BAP Schedule
110	1301-01	1.56690	1.59573					130.09	153			Changed to Distribution piping	Transdef Updates due to Manufacturing Threat Analysis	Removed from Transmission Intergity Management BAP Schedule
111	1301-01	1.59573	1.73039					130.095	712			Changed to Distribution piping	Transdef Updates due to Manufacturing Threat Analysis	Removed from Transmission Intergity Management BAP Schedule
112	1301-01	2.44387	2.51130					130.15	356			Changed to Distribution piping	Transdef Updates due to Manufacturing Threat Analysis	Removed from Transmission Intergity Management BAP Schedule

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	ROUTE	Begin Milepoint	End Milepoint	New HCA Segment No.	Added Footage	Proposed ASMT Year	Assessment methods	Disqualified Segment No.	Disqualified HCA Footage	Date of Change	HCA Segment Due Date	Change Detail	Reason for Change	Implication Analysis
113	1301-01	2.51130	2.51188					130.16	3			Changed to Distribution piping	Transdef Updates due to Manufacturing Threat Analysis	Removed from Transmission Intergity Management BAP Schedule
114	1301-01	2.51188	2.52786					130.17	84			Changed to Distribution piping	Transdef Updates due to Manufacturing Threat Analysis	Removed from Transmission Intergity Management BAP Schedule
115	1301-01	4.15006	4.17955					133.1	157			Changed to Distribution piping	Transdef Updates due to Manufacturing Threat Analysis	Removed from Transmission Intergity Management BAP Schedule
116	1819-01	2.21776	2.34000					425	647			Changed HCAID to Z	HCA Disqualified due to building occupatiancy information	Removed from Transmission Intergity Management BAP Schedule
117	1819-01	2.34000	2.41525					427	399			Changed HCAID to Z	HCA Disqualified due to building occupatiancy information	Removed from Transmission Intergity Management BAP Schedule
118	BD272	8.54000	8.54000					132	2			Changed to Distribution piping	HCA disqual due to revised pipe specs	Removed from Transmission Intergity Management BAP Schedule
119	BD9508	193.30000	193.30000					601	2			Changed to Distribution piping	HCA Disqual due to ICDA update	Removed from Transmission Intergity Management BAP Schedule
120	BD9508	193.30000	193.30000					602	6			Changed to Distribution piping	HCA Disqual due to ICDA update	Removed from Transmission Intergity Management BAP Schedule
121	BD9508	193.30000	193.30000					603	3			Changed to Distribution piping	HCA Disqual due to ICDA update	Removed from Transmission Intergity Management BAP Schedule
122	BD9508	193.30000	193.30000					604	17			Changed to Distribution piping	HCA Disqual due to ICDA update	Removed from Transmission Intergity Management BAP Schedule
123	DF3330	0.00000	0.00208					101	11			Changed to Distribution piping	HCA disqual due to revised pipe specs	Removed from Transmission Intergity Management BAP Schedule
124	DF3430	0.08000	0.09000					310	40			Changed to Distribution piping	HCA disqual due to revised pipe specs	Removed from Transmission Intergity Management BAP Schedule
125	DF3527	0.00000	0.00000					701	5			Changed to Distribution piping	HCA disqual due to revised pipe specs	Removed from Transmission Intergity Management BAP Schedule
126	DF3527	0.00000	0.00000					702	3			Changed to Distribution piping	HCA disqual due to revised pipe specs	Removed from Transmission Intergity Management BAP Schedule
127	DREG3878	0.00000	0.00037					101	35			Changed to Distribution piping	HCA disqual due to revised pipe specs	Removed from Transmission Intergity Management BAP Schedule

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	ROUTE	Begin Milepoint	End Milepoint	New HCA Segment No.	Added Footage	Proposed ASMT Year	Assessment methods	Disqualified Segment No.	Disqualified HCA Footage	Date of Change	HCA Segment Due Date	Change Detail	Reason for Change	Implication Analysis
128	DREG3878	0.00037	0.02120					102	74			Changed to Distribution piping	HCA disqual due to revised pipe specs	Removed from Transmission Intergity Management BAP Schedule
129	DREG4387	0.00000	0.00800					100	42			Changed to Distribution piping	HCA disqual due to revised pipe specs	Removed from Transmission Intergity Management BAP Schedule
130	DREG4565	0.00000	0.00210					801	11			Changed to Distribution piping	HCA disqual due to revised pipe specs	Removed from Transmission Intergity Management BAP Schedule
131	DREG4565	0.00210	0.01700					802	79			Changed to Distribution piping	HCA disqual due to revised pipe specs	Removed from Transmission Intergity Management BAP Schedule
132	DREG4738	0.04966	0.37000					801.95	1690			Changed to Distribution piping	HCA disqual due to revised pipe specs	Removed from Transmission Intergity Management BAP Schedule
133	DREG4861	0.00000	0.00057					801	3			Changed to Distribution piping	HCA disqual due to revised pipe specs	Removed from Transmission Intergity Management BAP Schedule
134	DREG5130	0.04102	0.06000					551.7	93			Changed to Distribution piping	HCA disqual due to revised pipe specs	Removed from Transmission Intergity Management BAP Schedule
135	DREG5130	0.06000	0.06000					204	9			Changed to Distribution piping	HCA disqual due to revised pipe specs	Removed from Transmission Intergity Management BAP Schedule
136	DREG5130	0.06000	0.06000					205	9			Changed to Distribution piping	HCA disqual due to revised pipe specs	Removed from Transmission Intergity Management BAP Schedule
137	DREG5130	0.06000	0.07000					208	80			Changed to Distribution piping	HCA disqual due to revised pipe specs	Removed from Transmission Intergity Management BAP Schedule
138	DREG5130	0.08000	0.09000					212	52			Changed to Distribution piping	HCA disqual due to revised pipe specs	Removed from Transmission Intergity Management BAP Schedule
139	DREG5644	0.00000	0.00000					800	5			Changed to Distribution piping	HCA disqual due to revised pipe specs	Removed from Transmission Intergity Management BAP Schedule
140	DREG5644	0.00000	0.00000					801	4			Changed to Distribution piping	HCA disqual due to revised pipe specs	Removed from Transmission Intergity Management BAP Schedule
141	DSBN11519	1.87000	2.05000					100	938			Changed to Distribution piping	HCA disqual due to revised pipe specs	Removed from Transmission Intergity Management BAP Schedule
142	GCUST5820	0.01671	0.01737					104	5			Changed to Distribution piping	HCA disqual due to revised pipe specs	Removed from Transmission Intergity Management BAP Schedule

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	ROUTE	Begin Milepoint	End Milepoint	New HCA Segment No.	Added Footage	Proposed ASMT Year	Assessment methods	Disqualified Segment No.	Disqualified HCA Footage	Date of Change	HCA Segment Due Date	Change Detail	Reason for Change	Implication Analysis
143	STA9923	Null	Null					951	11			Changed to Distribution piping	HCA disqual due to revised pipe specs	Removed from Transmission Intergity Management BAP Schedule
144	STA9923	Null	Null					951	11.31			Changed to Distribution piping	HCA disqual due to revised pipe specs	Removed from Transmission Intergity Management BAP Schedule
145	STUB6071	0.00000	0.00000					551	10			Changed to Distribution piping	HCA disqual due to revised pipe specs	Removed from Transmission Intergity Management BAP Schedule
146	STUB6211	0.00000	0.00091					209	5			Changed to Distribution piping	HCA disqual due to revised pipe specs	Removed from Transmission Intergity Management BAP Schedule
147	STUB6211	0.00091	0.02292					210	121			Changed to Distribution piping	HCA disqual due to revised pipe specs	Removed from Transmission Intergity Management BAP Schedule

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STANDARD PACIFIC GAS LINE

GAS OPERATIONS

PUBLIC SAFETY & ASSET INTEGRITY

Transmission Integrity Management Assessment Plan

Revision 8

Gas Transmission Integrity Management Program
for Standard Pacific Gas Line, Inc.

Prepared By: Redacted

Concur: Redacted

Concur:

Concur: _____ Date: 4/25/2013____
Bennie Barnes, Director
Transmission Integrity Management

Concur: _____ Date: 4/15/2013____
Sanford Hartman, Vice President
Managing Director, Law

Approved By: _____ Date: 4/29/2013____
Kirk Johnson, President and Chief Executive Officer
Standard Pacific Gas Line, Inc.

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INTRODUCTION

This document is Revision 8 of Standard Pacific Gas Line (Stan Pac) Transmission Integrity Management Assessment Plan, and is intended to meet the requirement of a Baseline Assessment Plan (BAP)[1] as prescribed in 49CFR192 subpart O and Stan Pac's Gas Transmission Risk Management Procedure (RMP), RMP-06. This revision to the assessment plan contains the results from Stan Pac's 2012 High Consequence Area (HCA) analysis, updates to its threat identification and updates to the current assessment plan for covered pipeline segments in Stan Pac's gas transmission system.

Introduced to this revision are "master HCAs." A master HCA combines physically connected HCA segments in the same route into a continuous master segment with begin and end mile points. This master HCA has been instituted to facilitate scheduling and to balance increased segmentation of the transmission system within Stan Pac's GIS system due to increased granularity in record keeping practices.

A master HCA segment may contain one or more pipe diameter, wall thicknesses, coating types or other physical attributes or operating characteristics but will be managed at the master HCA segment level for scheduling purposes. Stan Pac's may also include small non-HCA segments within a master HCA to facilitate scheduling.

The Assessment Plan is updated per RMP-06 Section 9.5 to document risk, potential threats and the assessment schedule at a summarized level which will be described in more detail in the narratives listed below.

The Integrity Management Program and associated assessments will be executed with adequate safety and environmental safeguards in place, pursuant to Section 20, "Environmental and Safety Measures" of RMP-06 and the procedures referenced in that section.

[1] An assessment plan for facilities operated by PG&E has been prepared separately.

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Assessment Plan Revisions

Table 1 lists all Baseline Assessment Plans issued pursuant to the Gas Transmission Pipeline Integrity Management Rule that became effective on December 15, 2003.

Table 1: Assessment Plan Revisions

Rev.	Description of Changes	Date
0	2004 Stan Pac's risk calculation, assessment plan and threats identification.	12/13/2004
1	2005 Stan Pac's risk calculation, assessment plan and threats identification.	12/20/2005
2	2006 Stan Pac's risk calculation. assessment plan and threats identification	2/15/2007
3	2007 Stan Pac's risk calculation, assessment plan and threats identification.	12/21/2007
3A	Revised Revision 3 report to reflect HCA change due the new gas gathering lines in 2007.	10/1/2008
4	2008 Stan Pac's risk calculation in assessment plan and threats	12/30/2008
4A	Revised report 4 to reflect updated high risk analysis, assessment plan and threats.	3/23/2009
5	2009 Stan Pac's risk calculation, assessment plan and threats identification.	1/22/2010
6	2010 Stan Pac's risk calculation, assessment plan and threats identification.	1/6/2011
7	2011 Stan Pac's risk calculation, assessment plan and threats identification.	3/26/2012
8	2012 Stan Pac's risk calculation, assessment plan and threats identification.	4/29/2013

HCA Assessment Plan – Pipelines

Table 2 lists the HCA Assessment Plan for pipelines and contains a listing of master HCAs, corresponding pipeline route, begin and end mile points, footage within the master HCA, HCA identification date, master HCA assessment due dates maximum risk score, the proposed assessment method and the threat determination for each of the potential pipeline threats prescribed by ASME B31.8S. For clarity in scheduling, the manufacturing threat has been broken into manufacturing threats affecting the seam and those affecting the body of the pipe.

The master HCA Due Date field (Column H) is the earliest assessment date of all HCA segments inside a master HCA. The assessment due date is based on criteria from RMP-06 covering scheduling of baseline assessments as well as re-assessment interval information generated from the Continual Evaluation process.

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Since the master HCA may contain two or more continuous HCA segments, the earliest assessment due date of all continuous HCA segment within a master HCA is listed. An asterisk is denoted in Column I when a master HCA has more than one due date based upon the underlying segments. In these cases, Stan Pac will assure that the necessary assessments are completed for each underlying segment within each segments individual compliance window. Long term, Stan Pac is attempting to align the assessment scheduling of the underlying segments to the master HCA due date. While this transition occurs, operational constraints may cause some underlying HCA segments to be assessed after the due date for the master HCA (based upon the earliest assessment due date of the segments in the master HCA), but will be completed in the compliance windows for the individual HCA segment.

Column J of Table 2 provides a list of risk values that provide the maximum identified risk score for all continuous HCA segments within a master HCA. Risk was calculated based upon RMP-06 and the associated risk procedures (RMPs 1-5 & 19). Risk is used for prioritization and scheduling of integrity assessments on covered segments and the application of mitigative measures.

Table 2 also lists the results of the updated potential threat identification for each master HCA using the methodology established in RMP-16. The threat designations have been summarized such that if one of the continuous HCA segments has a potential threat, the master HCA segment is listed as having the threat. When threats are identified to exist (i.e. a determination of Yes, Unstable or a High, Med, Low designation), an integrity assessment method or a preventative or mitigative measure (P&M) shall be identified to address each threat and are denoted in Column K.

Table 3 provides a key to the assessment method field listed in column K of Table 2. The methods were selected per the procedure established in Sections 9.3 and 9.4 of RMP-06. It should be noted that some threats do not have a prescribed integrity assessment method but are addressed through preventative and mitigative measures (P&M).[2]

[2] Incorrect Operations, Equipment Failure, Construction Threat and Weather & Outside Force are addressed by P&M measures. Manufacturing (Body of Pipe) and Third Party Damage may be addressed by either P&M Measures or integrity assessments. Time dependent threats and Manufacturing (seam) are addressed through Integrity assessments. See RMP-16.

Table 3: Assessment Methods

Assessment Method	Abbreviation
Inline Inspection	ILI
External Corrosion Direct Assessment	ECDA
Dry Gas Internal Corrosion Direct Assessment	ICDA
Stress Corrosion Cracking Direct Assessment	SCCDA
Hydrostatic Pressure Testing	Hydro
Direct Examination	DE
Preventative & Mitigative Measures	P&M
Direct Assessment (Inclusive of ECDA, ICDA, SCCDA)	DA

In some cases, Stan Pac may opt to perform a pipeline replacement in lieu of an integrity assessment based upon individual project parameters.

HCA Assessment Plan – Stations

Table 4 lists the assessment Plan for stations. It contains an updated listing of HCA stations, assessment planning information, updated threat identification, and risk scoring. The station threat identification is performed per RMP-16 based on inlet and outlet piping. Stations are not grouped by master HCAs. In these cases, the station assessment due date field denotes the actual compliance due date for the baseline assessment or re-assessment.

Risk is calculated per RMP-01 for the inlet and outlet piping. The highest risk value of inlet and outlet piping per station is listed in Table 4. For station assessments, detail drawings and station operating diagrams indicating the piping to be assessed inside stations are stored in Stan Pac's Gas Engineering offices in Walnut Creek.

HCA Change Log

Table 5 lists the HCA Change Log and has been included to identify new segments and segments that no longer qualify as HCAs that occurred between the time data was queried from GIS for this report in late September 2012 and December 31, 2012 and provides documentation of the program changes as required in the Management of Change section of RMP-06.

Included in Table 5 is the route, begin and end mile point, HCA segment, footage added or disqualified from the program, the date of the change, the reason for the change and the implication of the change to the program.

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HCA reviews are triggered when mapping changes occur and are captured in the audit change table which output is listed in Table 5 for the period between September 2012 when GIS was queried and the end of the year. The audit change log process is prescribed in Section 16.4 of RMP-06. An HCA review can also be generated as part of Stan Pac's annual system-wide county by county reviews. This process is also described in RMP-06 and RMP-08.

HCA identification was performed per RMP-06 and RMP-08 using Method 2 as per the requirements of 49 CFR Section 192.903. Stan Pac's procedure for this process is outlined in RMP-06, RMP-08 and in the individual 2012 county HCA identification reports.

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Data Key

Table 6 provides a detailed explanation of each of the columns within the associated tables.

Name	Explanation
Master HCA	Master HCA designation.
ROUTE	Line number of pipeline.
Begin Milepoint	Beginning Mile Point for the first segment of master HCA
End Milepoint	End Mile Point for the last segment of master HCA
Footage	This field denotes the cumulative footage of the master HCA
Date HCA Identified	This date is determined by the earliest born date for all continuous HCA segments within a master HCA.
Master HCA Last Assessment Date	Data that the earliest assessment completion date within of all continuous segments within a master HCA or the inlet and outlet of a station.
Master HCA Assessment Due Date	The date is determined by the earliest assessment due date of all continuous segments within a master HCA or the inlet and outlet of a station per RMP-06.
Multi Dates	An asterisk identifies that there is more than one compliance window in the master HCA.
RISK	The maximum risk calculated for all continuous HCA segments within a master HCA.
Assessment Methods	This field identifies the methods selected to address the threats identified on the master HCA
EC Threat	External Corrosion Threat. Determined per Risk Management Procedure RMP-16 Section 7.1
IC Threat	Internal Corrosion Threat. Determined per Risk Management Procedure, RMP-16 Section 7.2
SCC Threat	Stress Corrosion Cracking Threat. Determined by Risk Management Procedure, RMP-16 Sect. 7.3
Manuf. (Seam) Threat	Seam related Manufacturing Threats. Determined per Risk Management Proc., RMP-16 Sect. 7.4
Manuf. (Body of Pipe) Threat	Manufacturing Threat from body of pipe threats. (Non-Seam Related). Determined per Risk Management Procedure, RMP-16 Section 7.4
TPD Threat	Third Party Threat. Determined by Risk Management Procedure, RMP-16 Section 7.7
Const. Threat	Construction Threat. Determined per Risk Management Procedure, RMP-16, Sect. 7.5
WROF Threat	Weather and Outside Forces Threat. Determined by Risk Management Proc., RMP-16 Sect. 7.9
EQUIP Threat	Equipment Threat. Determined by Risk Management Procedure, RMP-16 Section 7.6
IO Threat	Incorrect Operation Threat. Determined by Risk Management Procedure, RMP-16 Section 7.8
New HCA Segment No.	Segment number assigned to HCA segment in Gas Map 2.0.
Added Footage	The amount of pipeline added to the Transmission Integrity Management program.
Proposed ASMT Year	Proposed year of assessment established during HCA evaluation. The year proposal may be confirmed and/or updated during assessment planning..
Disqualified Segment No.	The segment number in Gas Map 2.0 that was disqualified
Disqualified HCA Footage	The HCA footage that was disqualified from the Transmission Integrity Management program.
Date of Change	The date in which HCA was added or disqualified from the Trans. Integrity Management program.
HCA Segment Due Date	Date in which the HCA Segment due date has been established
Change Detail	Description of the change
Reason for Change	Reason for the change
Implication Analysis	Implication of the change to the Transmission Integrity Management Program.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Master HCA	ROUTE	Begin Milepoint	End Milepoint	Footage	Date HCA Identified	Master HCA Last Assessment Date	Master HCA Assessment Due Date	Multi Dates	Risk	Assessment Methods	EC THREAT	SCC THREAT	IC THREAT	MANUF. (SEAM) THREAT	MANUF. (BODY OF PIPE) THREAT	CONST. THREAT	TPD THREAT	WROF THREAT	EQUIP THREAT	IO THREAT
2	**1690**	SP3	194.136	198.680	25757	12/17/2004	2/15/2007	12/31/2013	*	14,546	ILI, ECDA, Hydro, P&M	Yes	No	No	Unstable	Stable	Stable	Yes	Yes	Low	Medium
3	**1698**	SP3	169.405	175.618	32759	12/17/2004	4/19/2007	4/19/2014	*	13,789	ILI, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
4	**1813**	STUB8891	0.000	0.001	4	12/17/2004	2/15/2007	2/15/2014		12,774	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
5	**1692**	SP3	167.280	169.383	11095	12/17/2004	2/15/2007	2/15/2014	*	12,414	ILI, ECDA, SCCDA, P&M	Yes	Yes	No	Stable	No	No	Yes	Yes	Low	Medium
6	**1700**	SP4Z	8.180	8.758	3029	12/17/2004	10/6/2012	10/6/2019		11,634	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
7	**1703**	SP5	0.202	0.694	2599	9/15/2009	5/16/2012	5/16/2018		11,569	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Medium
8	**1694**	SP3	181.080	184.473	18949	12/17/2004	4/19/2007	12/31/2013	*	11,349	ILI, Hydro, P&M	Yes	No	Yes	Unstable	Stable	Stable	Yes	Yes	Low	Medium
9	**1693**	SP3	191.385	192.729	7079	12/17/2004	10/6/2012	12/9/2018	*	11,272	ILI, ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
10	**1876**	X6585	8.180	8.180	6	12/17/2004	10/6/2012	10/6/2019		11,254	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
11	**1701**	SP5	2.133	5.777	19492	12/17/2004	2/15/2007	2/15/2014	*	11,191	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
12	**1702**	SP5	0.856	1.739	4663	12/17/2004	5/16/2012	5/16/2018		10,971	ECDA, P&M	Yes	No	No	No	Stable	Stable	Yes	Yes	Low	Medium
13	**1695**	SP3	177.519	179.687	11962	12/17/2004	4/19/2007	4/19/2014	*	10,551	ILI, P&M	Yes	No	Yes	No	No	No	Yes	Yes	Low	Medium
14	**1877**	X6586	3.870	3.870	9	12/17/2004	8/31/2010	8/31/2017		10,080	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
15	**1878**	X6587	3.890	3.890	7	12/17/2004	10/6/2012	10/6/2019		9,432	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
16	**1814**	STUB8893	0.000	0.010	52	12/23/2008	2/15/2007	2/15/2014		8,954	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
17	**1699**	SP3-1	0.000	0.000	11	12/17/2004	10/6/2012	10/6/2019		8,548	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
18	**1696**	SP3	189.988	190.381	2205	12/17/2004	4/19/2007	4/19/2014		8,504	ILI, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
19	**1691**	SP3	193.021	194.000	6430	12/17/2004	10/6/2012	4/19/2014	*	8,485	ILI, ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
20	**1812**	STUB8889	0.000	0.008	40	12/12/2008	2/15/2007	2/15/2014	*	8,418	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
21	**1697**	SP3	175.804	176.104	1565	12/17/2004	4/19/2007	4/19/2014		8,382	ILI, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
22	**1817**	STUB8915	0.000	0.006	34	12/11/2008	10/6/2012	10/6/2019		8,133	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
23	**1689**	RYER	0.195	0.357	855	12/17/2004	8/31/2010	8/31/2017		6,652	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Redacted		Last Assessment Date	Assessment Due Date	Risk	Assessment Tools	EC THREAT	SCC THREAT	IC THREAT	MANUF. (SEAM) THREAT	MANUF. (BODY OF PIPE) THREAT	CONST. THREAT	TPD THREAT	WROF THREAT	EQUIP THREAT	IO THREAT
2			11/18/2008	11/18/2015	13,710	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
3			1/14/2010	7/29/2018	12,189	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
4			4/24/2010	4/24/2017	12,080	ECDA, P&M	Yes	No	No	Stable	Stable	Stable	Yes	Yes	Low	Medium
5			6/5/2012	12/31/2014	11,525	ECDA, HYDRO, ICDA, P&M	Yes	No	Yes	Unstable	No	No	Yes	Yes	Low	Medium
6			11/18/2008	11/18/2015	11,191	ECDA, P&M	Yes	No	No	No	No	No	Yes	Yes	Low	Medium
7			1/14/2010	1/14/2017	8,317	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium
8			6/5/2012	6/5/2019	6,637	ECDA, P&M	Yes	No	No	Stable	No	No	Yes	Yes	Low	Medium

Table 5: HCA Change Log

Route	MP1	MP2	New HCA Segment No.	Added Footage	Proposed ASMT Year	Assessment methods	Disqualified HCA Segment No.	Disqualified HCA Footage	Date of Change	HCA Segment Due Date	Change Detail	Reason for Change	Implication Analysis
SP3	169.383	169.405	106.05	101	2013	ILI			10/29/2012	10/29/2022	New HCA	New pipe installation	Added to Integrity Management BAP Assessment Schedule

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