Schedule 33

Part 32

2013 Power Generation Outage Report
(Fossil & Hydro)

* Outage Type Key

U# = Unplanned Outage	NC = Non curtailing Event
MO = Maintenance Outage	ME = Extension of Maintenance Outage
PO = Planned Outage	PE = Extension of Planned Outage
SF = Start Failure	D# = Derates
PD = Planned Derating	DM = Maintenance Derate Extension

Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2013 Dates Start	2013 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Bath County 1	NC	Failed pump start due to the phase reversal not showing closed. No incremental cost occurred.	0.18	-	2/16/2013 14:15	2/16/2013 14:26	-	-	$0
Bath County 1	MO	The unit needed to be off line to allow low side switching. No incremental cost occurred.	1.60	1.60	3/7/2013 7:00	3/7/2013 8:36	500.0	800.0	$0
Bath County 1	MO	The unit needed to be off line to allow low side switching. No incremental cost occurred.	0.83	0.83	3/7/2013 16:13	3/7/2013 17:03	500.0	416.5	$0
Bath County 1	U1	One of the phase reversal limit switch was not making up which would not allow the unit to start. Incremental cost occurred to 67610765	5.92	5.92	3/9/2013 12:30	3/9/2013 18:25	500.0	2,958.5	$0
Bath County 1	NC	Due to transmission work the station was curtailed to 6 generators and 5 pumps. No incremental cost occurred.	2.00	-	3/10/2013 8:00	3/10/2013 10:00	-	-	$0
Bath County 1	MO	The station emergency generator auto start PM was due and all units have to be off line to perform this procedure. No incremental cost occurred. No incremental cost occurred.	2.00	2.00	3/10/2013 10:00	3/10/2013 12:00	500.0	1,000.0	$0
Bath County 1	NC	The station emergency generator auto start PM was due and all units have to be off line to perform this procedure. No incremental cost occurred.	4.00	-	3/10/2013 12:00	3/10/2013 16:00	-	-	$0
Bath County 1	NC	Failed pump start due to the starting breaker not closing. Incremental cost occurred to 67615324.	0.08	-	3/20/2013 23:35	3/20/2013 23:40	-	-	$0
Bath County 1	NC	The starting breaker would not close. Incremental cost occurred to 67615324.	9.43	-	3/20/2013 23:40	3/21/2013 9:06	-	-	$0
Bath County 1	MO	The starting breaker would not close. Incremental cost occurred to 67615324.	5.98	5.98	3/21/2013 9:06	3/21/2013 15:05	500.0	2,991.5	$2
Bath County 1	PO	The unit's rotor needed to be replaced due to cracking. Incremental cost occurred to FBC1.12	1,217.47	1,217.47	3/31/2013 0:01	5/20/2013 17:29	500.0	608,733.5	$376
Bath County 1	PO	The unit was released from it's rotor replacement outage for testing. Incremental cost occurred to FBC1.12	17.02	17.02	5/20/2013 18:40	5/21/2013 11:41	502.1	8,544.2	$0
Bath County 1	PO	The unit was released from it's rotor replacement outage for testing. Incremental cost occurred to FBC1.12	26.95	26.95	5/21/2013 15:45	5/22/2013 18:42	502.1	13,531.6	$0
Bath County 1	PO	The unit was released from its rotor replacement outage for testing. Incremental cost occurred to FBC1.12	19.42	19.42	5/23/2013 17:55	5/24/2013 13:20	502.1	9,749.3	$0
Bath County 1	NC	Due to transmission work the station was curtailed to 5 generators and 3 pumps. No incremental cost occurred.	28.30	-	6/11/2013 6:00	6/12/2013 10:18	-	-	$0
Bath County 1	NC	When unit 4 came off line as a pump the starting breaker position indicator failed. Incremental cost occurred to 67649332	3.55	-	6/14/2013 7:32	6/14/2013 11:05	-	-	$0
Bath County 1	NC	Pump start failure due to an operator error. No incremental cost occurred.	0.17	-	7/14/2013 2:40	7/14/2013 2:50	-	-	$0
Bath County 1	U1	Unit tripped off line due to low shaft seal water flow. No incremental cost occurred.	0.43	0.43	7/20/2013 17:17	7/20/2013 17:43	502.1	217.4	$0
Bath County 1	SF	The unit failed to start as a generator due to the shaft seal water flow being too low. No incremental cost occurred.	0.08	0.08	8/4/2013 16:40	8/4/2013 16:45	502.1	41.7	$0
Bath County 1	SF	The unit failed to start as a generator due to the shaft seal water flow being too low. No incremental cost occurred.	16.45	16.45	8/4/2013 16:45	8/5/2013 9:12	502.1	8,259.5	$0
Bath County 1	U1	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	2.25	2.25	8/5/2013 9:19	8/5/2013 11:34	502.1	1,129.7	$0
Bath County 1	MO	One of the shaft seal water supply hydrocyclone had a restricted flow. No incremental cost occurred.	2.10	2.10	8/5/2013 11:34	8/5/2013 13:40	502.1	1,054.4	$0
Bath County 1	U1	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	5.98	5.98	8/6/2013 12:54	8/6/2013 18:53	502.1	3,004.1	$0
Bath County 1	NC	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	7.32	-	8/8/2013 11:50	8/8/2013 19:09	-	-	$0
Bath County 1	U1	The unit tripped off line due to loss of communication between the governor and DCS. No incremental cost occurred.	14.85	14.85	8/8/2013 19:09	8/9/2013 10:00	502.1	7,456.2	$0
Bath County 1	NC	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	13.80	-	8/9/2013 10:00	8/9/2013 23:48	-	-	$0
Bath County 1	U1	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	9.85	9.85	8/12/2013 12:43	8/12/2013 22:34	502.1	4,945.7	$0
Bath County 1	U1	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	8.27	8.27	8/26/2013 14:37	8/26/2013 22:53	502.1	4,150.9	$0
Bath County 1	U1	The unit was forced due to a nut backing off of the G wicket gate. Incremental cost occurred to 67584037	3.17	3.17	9/1/2013 22:05	9/2/2013 1:15	502.1	1,590.2	$0
Bath County 1	NC	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred	22.03	-	9/2/2013 1:15	9/2/2013 23:17	-	-	$0
Bath County 1	U1	Due to the Pruntytown to Mt Storm line being out the station is curtailed to 3 generators and 2 pumps. No incremental cost occurred.	29.82	29.82	9/9/2013 9:00	9/10/2013 14:49	502.1	14,971.1	$0
Bath County 1	U1	Due to transmission work the station is curtailed to 2 generators and 1 pump. No incremental cost occurred.	36.10	36.10	9/15/2013 8:13	9/16/2013 20:19	502.1	18,125.8	$0
Bath County 1	U1	Due to transmission work the station is curtailed to 2 generators and 2 pumps. No incremental cost occurred.	9.85	9.85	9/16/2013 21:05	9/17/2013 6:56	502.1	4,945.7	$0
Bath County 1	U1	Due to transmission work the station is curtailed to 2 generators and 2 pumps. No incremental cost occurred.	14.90	14.90	9/18/2013 8:00	9/18/2013 22:54	502.1	7,481.3	$0
Bath County 1	U1	Due to transmission work the station is curtailed to 2 generators and 2 pumps. No incremental cost occurred.	0.97	0.97	9/19/2013 10:40	9/19/2013 11:38	502.1	485.5	$0
Bath County 1	NC	Due to transmission work the station is curtailed to 3 generators and 2 pumps. No incremental cost occurred.	33.62	-	9/19/2013 12:22	9/20/2013 21:59	-	-	$0
Bath County 1	U1	Due to transmission work the station is curtailed to 3 generators and 2 pumps. No incremental cost occurred	3.13	3.13	9/22/2013 18:24	9/22/2013 21:32	502.1	1,573.1	$0
Bath County 1	U1	Due to transmission work the station is curtailed to 2 generators and 2 pumps. No incremental cost occurred.	15.98	15.98	9/25/2013 7:04	9/25/2013 23:03	502.1	8,025.1	$0
Bath County 1	U1	Due to transmission work the station is curtailed to 3 generators and 2 pumps. No incremental cost occurred.	4.52	4.52	9/30/2013 10:25	9/30/2013 14:56	502.1	2,268.0	$0
Bath County 1	MO	Due to transmission work the station is curtailed to 3 generators and 2 pumps. No incremental cost occurred.	2.58	2.58	10/3/2013 21:58	10/4/2013 0:33	502.1	1,296.9	$0
Bath County 1	MO	Due to transmission work the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	4.50	4.50	10/8/2013 7:00	10/8/2013 11:30	502.1	2,259.5	$0
Bath County 1	MO	Due to transmission work the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	3.20	3.20	10/8/2013 15:01	10/8/2013 18:13	502.1	1,606.7	$0
Bath County 1	NC	Due to transmission work the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	25.93	-	10/10/2013 0:17	10/11/2013 2:13	-	-	$0
Bath County 1	U1	Due to transmission work the station is curtailed to 4generators and 3 pumps. No incidental cost occurred.	7.02	7.02	10/14/2013 17:00	10/15/2013 0:01	502.1	3,523.2	$0
Bath County 1	MO	Vibration data collection instrumentation was installed on the bearings. No incremental cost occurred.	16.98	16.98	10/15/2013 0:01	10/15/2013 17:00	502.1	8,527.2	$0
Bath County 1	U1	Due to transmission work the station is curtailed to 4 generators and 3 pumps. No incidental cost occurred.	0.75	0.75	10/15/2013 17:00	10/15/2013 17:45	502.1	376.6	$0
Bath County 1	U1	The unit tripped lockout 86TG due to low shaft seal flow. No incremental cost occurred.	18.22	18.22	10/15/2013 17:45	10/16/2013 11:58	502.1	9,146.8	$0

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Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2013 Dates Start	2013 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Bath County 1	U1	Due to transmission work the station is curtailed to 4 generators and 3 pumps. No incidental cost occurred.	2.23	2.23	10/17/2013 7:13	10/17/2013 9:27	502.1	1,121.2	$0
Bath County 1	NC	Due to transmission work the station is curtailed to 5 generators and 4 pumps. No incidental cost occurred.	62.57	-	10/17/2013 9:27	10/20/2013 0:01	-	-	$0
Bath County 1	PO	Due to NERC requirements the station was broken up to 3 operating systems. Incidental cost occurred to 13F1.1	300.02	300.02	10/20/2013 0:01	11/1/2013 12:02	502.1	150,638.5	$0
Bath County 1	PO	Due to NERC requirements the station was broken up to 3 operating systems. Incidental cost occurred to 13F1.1	1.50	1.50	11/2/2013 5:55	11/2/2013 7:25	502.1	753.2	$0
Bath County 1	U1	Due to transmission work on the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	41.57	41.57	11/2/2013 7:26	11/4/2013 0:00	502.1	20,870.8	$0
Bath County 1	U1	Due to transmission work on the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	142.02	142.02	11/4/2013 0:01	11/9/2013 22:02	502.1	71,306.7	$0
Bath County 1	U1	A low SF6 gas alarm came in on zones 15,16 and 18. No incremental cost occurred.	4.22	4.22	11/13/2013 13:30	11/13/2013 17:43	502.1	2,117.4	$0
Bath County 1	U1	Due to transmission work the station is curtailed to 3 generators and 1 pump. No incremental cost occurred.	1.12	1.12	11/18/2013 15:40	11/18/2013 16:47	502.1	560.8	$0
Bath County 1	NC	Due to transmission work the station is curtailed to 3 generators and 1 pump. No incremental cost occurred.	7.35	-	11/18/2013 22:28	11/19/2013 5:49	-	-	$0
Bath County 1	U1	Due to transmission work the station is curtailed to 3 generators and 1 pump. No incremental cost occurred.	5.10	5.10	11/19/2013 5:49	11/19/2013 10:55	502.1	2,560.7	$0
Bath County 1	NC	Due to transmission work the station not include switchyard problems in this cat	43.20	-	11/19/2013 10:00	11/21/2013 5:12	-	-	$0
Bath County 1	U1	Due to transmission work the station is curtailed to 3 generators and 1 pump. No incremental cost occurred.	1.47	1.47	11/21/2013 6:15	11/21/2013 7:43	502.1	736.6	$0
Bath County 1	NC	Due to transmission work the station is curtailed to 3 generators and 1 pump. No incremental cost occurred.	8.28	-	11/21/2013 7:43	11/21/2013 16:00	-	-	$0
Bath County 1	MO	Due to transmission work the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	210.45	210.45	11/22/2013 5:34	12/1/2013 0:01	502.1	105,666.9	$0
Bath County 1	MO	One of the limit switches in the phase reversal was not making up all of the time. No incremental cost occurred.	9.20	9.20	12/5/2013 8:00	12/5/2013 17:12	502.1	4,619.3	$0
Bath County 1	MO	Due to transmission work the stations was curtailed to 2 generators and 1 pump. No incremental cost occurred.	6.48	6.48	12/9/2013 10:00	12/9/2013 16:29	502.1	3,255.1	$0
Bath County 1	NC	Due to transmission work the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	5.38	-	12/10/2013 22:53	12/11/2013 4:16	-	-	$0
Bath County 1	U1	Due to transmission work the station was curtailed to 4 generators and 4 pumps. No incremental cost occurred.	9.70	9.70	12/13/2013 9:00	12/13/2013 18:42	502.1	4,870.4	$0
Bath County 1	U1	Unit 1 tripped due to high governor oil level. No incremental cost occurred.	0.32	0.32	12/22/2013 2:40	12/22/2013 2:59	502.1	159.2	$0
Bath County 2	MO	The unit needed to be off line to allow low side switching. No incremental cost occurred.	1.60	1.60	3/7/2013 7:00	3/7/2013 8:36	500.0	800.0	$0
Bath County 2	MO	The unit needed to be off line to allow low side switching. No incremental cost occurred.	0.83	0.83	3/7/2013 16:13	3/7/2013 17:03	500.0	416.5	$0
Bath County 2	MO	The station emergency generator auto start PM was due and all units have to be off line to perform this procedure. No incremental cost occurred.	2.00	2.00	3/10/2013 10:00	3/10/2013 12:00	500.0	1,000.0	$0
Bath County 2	SF	The unit failed to start due to the isolation horseshoes" being left on the governor servo. No incremental cost occurred."	0.22	0.22	3/13/2013 18:27	3/13/2013 18:40	500.0	108.5	$0
Bath County 2	NC	Due to transmission work the station was curtailed to 5 generators and 3 pumps. No incremental cost occurred.	18.00	-	3/19/2013 5:49	3/19/2013 23:49	-	-	$0
Bath County 2	PO	The power tunnel inspection for units 1 and 2 was due. Incremental cost occurred to FBC2.10	734.78	734.78	3/31/2013 0:01	4/30/2013 14:48	500.0	367,391.5	$0
Bath County 2	MO	Due to the 548 line being out for gassing the station was limited to 3 generators and 2 pumps. No incremental cost occurred.	2.40	2.40	5/15/2013 22:26	5/16/2013 0:50	500.0	1,200.0	$0
Bath County 2	MO	A braided hose for the wearing ring was leaking. Incremental cost occurred to 67636881	10.00	10.00	5/17/2013 7:00	5/17/2013 17:00	500.0	5,000.0	$0
Bath County 2	NC	When unit 4 came off line as a pump the starting breaker position indicator failed. Incremental cost occurred to 67649332	2.58	-	6/14/2013 8:30	6/14/2013 11:05	-	-	$0
Bath County 2	U1	The unit tripped off line as a pump, the reservoir level is reading low. No incremental cost occurred.	0.08	0.08	8/5/2013 7:38	8/5/2013 7:43	502.2	41.7	$0
Bath County 2	MO	The shaft seal flow is reaing lower on the B separator. No incremental cost occurred.	3.00	3.00	8/14/2013 8:00	8/14/2013 11:00	502.2	1,506.6	$0
Bath County 2	U1	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred	47.40	47.40	8/15/2013 23:40	8/17/2013 23:04	502.2	23,804.3	$0
Bath County 2	NC	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	11.78	-	8/22/2013 0:27	8/22/2013 12:14	-	-	$0
Bath County 2	U1	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	10.28	10.28	8/22/2013 12:14	8/22/2013 22:31	502.2	5,164.1	$0
Bath County 2	U1	There was an oil leak in the spherical valve cabinet. Incremental cost occurred to 67679281	2.12	2.12	8/23/2013 9:20	8/23/2013 11:27	502.2	1,063.2	$0
Bath County 2	NC	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	15.73	-	8/28/2013 6:45	8/28/2013 22:29	-	-	$0
Bath County 2	NC	Due to transmission work the station is curtailed to 2 generators and 1 pump. No incremental cost occurred.	48.58	-	9/15/2013 22:48	9/17/2013 23:23	-	-	$0
Bath County 2	U1	Due to transmission work the station is curtailed to 2 generators and 2 pumps. No incremental cost occurred.	11.77	11.77	9/18/2013 22:54	9/19/2013 10:40	502.2	5,909.4	$0
Bath County 2	U1	Due to transmission work the station is curtailed to 3 generators and 2 pumps. No incremental cost occurred.	56.88	56.88	9/20/2013 9:31	9/22/2013 18:24	502.2	28,566.6	$0
Bath County 2	NC	Due to transmission work the station is curtailed to 3 generators and 2 pumps. No incremental cost occurred	130.75	-	9/22/2013 22:58	9/28/2013 9:43	-	-	$0
Bath County 2	U1	Due to transmission work the station is curtailed to 3 generators and 2 pumps. No incremental cost occurred.	37.08	37.08	9/28/2013 9:43	9/29/2013 22:48	502.2	18,623.1	$0
Bath County 2	NC	Due to transmission work the station is curtailed to 3 generators and 2 pumps. No incremental cost occurred.	13.85	-	10/2/2013 23:08	10/3/2013 12:59	-	-	$0
Bath County 2	MO	Due to transmission work the station is curtailed to 3 generators and 2 pumps. No incremental cost occurred.	4.52	4.52	10/3/2013 12:59	10/3/2013 17:30	502.2	2,268.4	$0
Bath County 2	NC	Due to transmission work the station is curtailed to 3 generators and 2 pumps. No incremental cost occurred.	7.05	-	10/3/2013 17:30	10/4/2013 0:33	-	-	$0
Bath County 2	MO	Due to transmission work the station is curtailed to 3 generators and 2 pumps. No incremental cost occurred.	10.83	10.83	10/4/2013 0:33	10/4/2013 11:23	502.2	5,440.3	$0
Bath County 2	MO	Due to transmission work the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	8.15	8.15	10/8/2013 22:29	10/9/2013 6:38	502.2	4,092.9	$0
Bath County 2	MO	Due to transmission work the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	6.03	6.03	10/9/2013 7:58	10/9/2013 14:00	502.2	3,029.8	$0
Bath County 2	MO	Due to transmission work the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	5.87	5.87	10/9/2013 23:50	10/10/2013 5:42	502.2	2,946.4	$0
Bath County 2	MO	Due to transmission work the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	3.60	3.60	10/10/2013 7:33	10/10/2013 11:09	502.2	1,807.9	$0
Bath County 2	U1	Due to transmission work the station is curtailed to 4 generators and 3 pumps. No incidental cost occurred.	4.93	4.93	10/15/2013 18:04	10/15/2013 23:00	502.2	2,477.4	$0
Bath County 2	PO	Due to NERC requirements the station was broken up to 3 operating systems. Incidental cost occurred to 13F2.1	304.68	304.68	10/20/2013 0:01	11/1/2013 16:42	502.2	153,011.8	$48
Bath County 2	PO	Due to NERC requirements the station was broken up to 3 operating systems. Incidental cost occurred to 13F1.1	4.90	4.90	11/1/2013 18:08	11/1/2013 23:02	502.2	2,460.8	$10
Bath County 2	MO	Due to transmission work on the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	42.00	42.00	11/4/2013 6:00	11/6/2013 0:00	502.2	21,092.4	$0

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Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2013 Dates Start	2013 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Bath County 2	U1	Due to transmission work on the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	6.08	6.08	11/6/2013 0:00	11/6/2013 6:05	502.2	3,054.9	$0
Bath County 2	MO	Due to transmission work on the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	80.83	80.83	11/6/2013 12:12	11/9/2013 21:02	502.2	40,594.3	$0
Bath County 2	NC	A low SF6 gas alarm came in on zones 15,16 and 18. No incremental cost occurred.	4.22	-	11/13/2013 13:30	11/13/2013 17:43	-	-	$0
Bath County 2	NC	Due to transmission work the station is curtailed to 3 generators and 1 pump. No incremental cost occurred.	14.92	-	11/18/2013 7:00	11/18/2013 21:55	-	-	$0
Bath County 2	U1	Due to transmission work the station is curtailed to 3 generators and 1 pump. No incremental cost occurred.	7.90	7.90	11/18/2013 21:55	11/19/2013 6:49	502.2	3,967.4	$0
Bath County 2	NC	Due to transmission work the station is curtailed to 3 generators and 1 pump. No incremental cost occurred.	5.10	-	11/19/2013 5:49	11/19/2013 10:55	-	-	$0
Bath County 2	U1	Due to transmission work the station is curtailed to 3 generators and 1 pump. No incremental cost occurred.	18.35	18.35	11/19/2013 10:55	11/20/2013 5:16	502.2	9,215.4	$0
Bath County 2	U1	Due to transmission work the station is curtailed to 3 generators and 1 pump. No incremental cost occurred.	10.97	10.97	11/20/2013 6:24	11/20/2013 17:22	502.2	5,507.6	$0
Bath County 2	NC	Due to transmission work the station is curtailed to 3 generators and 1 pump. No incremental cost occurred.	2.83	-	11/20/2013 17:22	11/20/2013 20:12	-	-	$0
Bath County 2	U1	Due to transmission work the station is curtailed to 3 generators and 1 pump. No incremental cost occurred.	9.00	9.00	11/20/2013 20:12	11/21/2013 5:12	502.2	4,519.8	$0
Bath County 2	NC	Due to transmission work the station is curtailed to 3 generators and 1 pump. No incremental cost occurred.	10.25	-	11/21/2013 5:12	11/21/2013 15:27	-	-	$0
Bath County 2	U1	Due to transmission work the station is curtailed to 3 generators and 1 pump. No incremental cost occurred.	0.55	0.55	11/21/2013 15:27	11/21/2013 16:00	502.2	276.2	$0
Bath County 2	U1	Due to transmission work the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	9.95	9.95	11/21/2013 19:37	11/22/2013 5:34	502.2	4,996.9	$0
Bath County 2	NC	The unit failed to start as a pump due not priming fast enough. No incremental cost occurred.	0.17	-	12/1/2013 12:55	12/1/2013 13:05	-	-	$0
Bath County 2	NC	The unit failed to start as a pump due not priming fast enough. No incremental cost occurred.	11.42	-	12/1/2013 13:05	12/2/2013 0:30	-	-	$0
Bath County 2	SF	The unit failed to start as a generator due a problem with the phase reversal. No incremental cost occurred.	0.08	0.08	12/2/2013 7:55	12/2/2013 8:00	502.2	41.7	$0
Bath County 2	U1	The unit failed to start as a generator due a problem with the phase reversal. No incremental cost occurred.	3.90	3.90	12/2/2013 8:00	12/2/2013 11:54	502.2	1,958.6	$0
Bath County 2	SF	The unit failed to start as a generator due a problem with the phase reversal. No incremental cost occurred.	0.08	0.08	12/3/2013 6:53	12/3/2013 6:58	502.2	41.7	$0
Bath County 2	U1	The unit failed to start as a generator due a problem with the phase reversal. No incremental cost occurred.	9.85	9.85	12/3/2013 6:58	12/3/2013 16:49	502.2	4,946.7	$0
Bath County 2	MO	Due to the NERC separation project the SPS needed to be tested. No incremental cost occurred.	2.25	2.25	12/5/2013 12:00	12/5/2013 14:15	502.2	1,130.0	$0
Bath County 3	MO	The unit needed to be off line to allow low side switching. No incremental cost occurred.	1.33	1.33	3/7/2013 8:35	3/7/2013 9:55	502.0	669.2	$0
Bath County 3	MO	The unit needed to be off line to allow low side switching. No incremental cost occurred.	0.43	0.43	3/7/2013 15:47	3/7/2013 16:13	502.0	217.4	$0
Bath County 3	MO	The station emergency generator auto start PM was due and all units have to be off line to perform this procedure. No incremental cost occurred.	2.00	2.00	3/10/2013 10:00	3/10/2013 12:00	502.0	1,004.0	$0
Bath County 3	PO	Intermediate guide bearing are running hot. Incremental cost occurred to 13S3.1	182.48	182.48	3/11/2013 0:01	3/18/2013 14:30	502.0	91,606.5	$3
Bath County 3	NC	Due to transmission work the station was curtailed to 5 generators and 3 pumps. No incremental cost occurred.	8.00	-	3/19/2013 15:49	3/19/2013 23:49	-	-	$0
Bath County 3	U1	The unit's DCS had points forced that would not allow the unit to start. Incremental cost occurred to 67618054	3.48	3.48	3/27/2013 19:42	3/27/2013 23:11	502.0	1,748.5	$0
Bath County 3	NC	Due to units 1 and 2 isophase needed meggared unit 3 could not pump or condense. No incremental cost occurred.	11.05	-	4/24/2013 7:45	4/24/2013 18:48	-	-	$0
Bath County 3	MO	High side switching was needed to isolate unit 4 for breaker replacement. Incremental cost occurred to 67284487	0.60	0.60	5/28/2013 0:01	5/28/2013 0:37	502.3	301.4	$0
Bath County 3	MO	High side switching was needed to isolate unit 4 for breaker replacement. Incremental cost occurred to 67284487	1.18	1.18	5/30/2013 12:53	5/30/2013 14:04	502.3	594.2	$0
Bath County 3	MO	Due to transmission work the station was curtailed to 5 generators and 3 pumps. No incremental cost occurred.	28.28	28.28	6/11/2013 6:00	6/12/2013 10:17	502.3	14,206.6	$0
Bath County 3	NC	When unit 4 came off line as a pump the starting breaker position indicator failed. Incremental cost occurred to 67649332	3.55	-	6/14/2013 7:32	6/14/2013 11:05	-	-	$0
Bath County 3	MO	A pipe nipple in the spherical valve cabinet was leaking oil. No incremental cost occurred.	2.87	2.87	7/10/2013 7:00	7/10/2013 9:52	502.3	1,440.1	$0
Bath County 3	NC	Pump failed to start due to the excitation not coming on. No incremental cost occurred.	0.18	-	7/28/2013 1:09	7/28/2013 1:20	-	-	$0
Bath County 3	NC	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred	48.02	-	8/1/2013 0:00	8/3/2013 0:01	-	-	$0
Bath County 3	U1	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	7.68	7.68	8/1/2013 11:27	8/1/2013 19:08	502.3	3,859.2	$0
Bath County 3	NC	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	48.43	-	8/10/2013 23:08	8/12/2013 23:34	-	-	$0
Bath County 3	NC	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred	23.82	-	8/13/2013 23:50	8/14/2013 23:39	-	-	$0
Bath County 3	NC	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	46.43	-	8/17/2013 23:28	8/19/2013 21:54	-	-	$0
Bath County 3	U1	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	13.83	13.83	8/20/2013 21:53	8/21/2013 11:43	502.3	6,948.3	$0
Bath County 3	NC	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	36.82	-	8/22/2013 12:14	8/24/2013 1:03	-	-	$0
Bath County 3	NC	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	14.90	-	8/27/2013 16:00	8/28/2013 6:54	-	-	$0
Bath County 3	NC	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	23.50	-	9/1/2013 0:13	9/1/2013 23:43	-	-	$0
Bath County 3	U1	Due to the Pruntytown to Mt Storm line being out the station is curtailed to 3 generators and 2 pumps. No incremental cost occurred.	27.47	27.47	9/9/2013 9:00	9/10/2013 12:28	502.3	13,796.7	$0
Bath County 3	PO	The unit's operating system is being split to three, two unit system due to CIP-005 regulations. Incremental cost occurred to 13F3.1.	413.95	413.95	9/15/2013 5:52	10/2/2013 11:49	502.3	207,927.1	$1
Bath County 3	PO	The unit's operating system is being split to three, two unit system due to CIP-005 regulations. Incremental cost occurred to 13F3.1.	20.50	20.50	10/2/2013 16:29	10/3/2013 12:59	502.3	10,297.2	$0

150330139

* Outage Type Key

U# = Unplanned Outage	NC = Non curtailing Event
MO = Maintenance Outage	ME = Extension of Maintenance Outage
PO = Planned Outage	PE = Extension of Planned Outage
SF = Start Failure	D# = Derates
PD = Planned Derating	DM = Maintenance Derate Extension

2013 Power Generation Outage Report

(Fossil & Hydro)

Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2013 Dates Start	2013 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Bath County 3	PO	The unit's operating system is being split to three, two unit system due to CIP-005 regulations. Incremental cost occurred to 13F3.1.	0.90	0.90	10/3/2013 21:04	10/3/2013 21:58	502.3	452.1	$0
Bath County 3	NC	Due to transmission work the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	132.90	-	10/4/2013 11:23	10/10/2013 0:17	-	-	$0
Bath County 3	NC	Due to transmission work the station is curtailed to 5 generators and 4 pumps. No incidental cost occurred.	82.03	-	10/11/2013 2:13	10/14/2013 12:15	-	-	$0
Bath County 3	U1	Due to transmission work the station is curtailed to 4 generators and 3 pumps. No incidental cost occurred.	29.82	29.82	10/14/2013 12:15	10/15/2013 18:04	502.3	14,977.1	$0
Bath County 3	U1	Due to transmission work the station is curtailed to 4 generators and 3 pumps. No incidental cost occurred.	3.25	3.25	10/16/2013 7:14	10/16/2013 10:29	502.3	1,632.5	$0
Bath County 3	NC	Due to transmission work the station is curtailed to 4 generators and 3 pumps. No incidental cost occurred.	8.20	-	10/16/2013 11:58	10/16/2013 20:10	-	-	$0
Bath County 3	U1	Due to transmission work the station is curtailed to 4 generators and 3 pumps. No incidental cost occurred.	13.28	13.28	10/16/2013 20:10	10/17/2013 9:27	502.3	6,672.1	$0
Bath County 3	U1	The station is curtailed to 5 generators and 4 pumps due to maintenance on the Cloverdale to Lexington line	1.43	1.43	11/1/2013 16:42	11/1/2013 18:08	502.3	719.8	$0
Bath County 3	U1	Due to transmission work on the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	6.88	6.88	11/1/2013 23:02	11/2/2013 5:55	502.3	3,457.3	$0
Bath County 3	U1	Due to transmission work on the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	1.52	1.52	11/5/2013 18:39	11/5/2013 20:10	502.3	762.0	$0
Bath County 3	NC	Due to transmission work on the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	23.17	-	11/6/2013 12:00	11/7/2013 11:10	-	-	$0
Bath County 3	U1	Due to transmission work the station is curtailed to 3 generators and 1 pump. No incremental cost occurred.	8.67	8.67	11/18/2013 7:00	11/18/2013 15:40	502.3	4,353.4	$0
Bath County 3	NC	Due to transmission work the station is curtailed to 3 generators and 1 pump. No incremental cost occurred.	6.80	-	11/18/2013 15:40	11/18/2013 22:28	-	-	$0
Bath County 3	U1	Due to transmission work the station is curtailed to 3 generators and 1 pump. No incremental cost occurred.	0.65	0.65	11/21/2013 5:20	11/21/2013 5:59	502.3	326.5	$0
Bath County 3	U1	Due to transmission work the station is curtailed to 3 generators and 1 pump. No incremental cost occurred.	5.25	5.25	11/21/2013 7:43	11/21/2013 12:58	502.3	2,637.1	$0
Bath County 3	NC	Due to transmission work the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	138.47	-	11/25/2013 14:00	12/1/2013 8:28	-	-	$0
Bath County 3	NC	Due to transmission work the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	3.07	-	12/1/2013 9:00	12/1/2013 12:04	-	-	$0
Bath County 3	NC	Due to transmission work the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	7.87	-	12/2/2013 0:03	12/2/2013 7:55	-	-	$0
Bath County 3	NC	Due to transmission work the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	18.48	-	12/2/2013 11:54	12/3/2013 6:23	-	-	$0
Bath County 3	NC	Due to transmission work the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	39.18	-	12/3/2013 16:49	12/5/2013 8:00	-	-	$0
Bath County 3	MO	Due to the NERC separation project the SPS needed to be tested. No incremental cost occurred.	2.25	2.25	12/5/2013 12:00	12/5/2013 14:15	502.3	1,130.2	$0
Bath County 3	NC	Due to transmission work the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	88.80	-	12/5/2013 17:12	12/9/2013 10:00	-	-	$0
Bath County 3	MO	Due to transmission work the stations was curtailed to 2 generators and 1 pump. No incremental cost occurred.	6.48	6.48	12/9/2013 10:00	12/9/2013 16:29	502.3	3,256.4	$0
Bath County 3	NC	Due to transmission work the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	31.40	-	12/9/2013 16:29	12/10/2013 23:53	-	-	$0
Bath County 3	NC	Due to transmission work the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	19.67	-	12/11/2013 4:16	12/11/2013 23:56	-	-	$0
Bath County 3	NC	Due to PJM not being able to see when the SPS was armed the station was only allow to pump with 3 units. No incremental cost occurred.	10.03	-	12/13/2013 2:58	12/13/2013 13:00	-	-	$0
Bath County 4	MO	A pipe fitting in the governor cabinet was leaking. Incremental cost occurred to 67858598.	1.92	1.92	1/14/2013 11:00	1/14/2013 12:55	500.0	958.5	$0
Bath County 4	NC	Due to transmission work the station was curtailed to 6 generators and 5 pumps. No incremental cost occurred.	9.00	-	1/28/2013 7:00	1/28/2013 16:00	-	-	$0
Bath County 4	NC	Due to transmission work the station was curtailed to 6 generators and 5 pumps. No incremental cost occurred.	54.83	-	2/19/2013 7:00	2/21/2013 13:50	-	-	$0
Bath County 4	NC	A pipe nipple on the spiral case line was leaking. No incremental cost occurred.	0.50	-	3/5/2013 10:20	3/5/2013 10:50	-	-	$0
Bath County 4	MO	The unit needed to be off line to allow low side switching. No incremental cost occurred.	1.33	1.33	3/7/2013 8:35	3/7/2013 9:55	500.0	666.5	$0
Bath County 4	NC	Due to the frequency converter being out of service only 5 pumps could be started. No incremental cost occurred.	5.87	-	3/7/2013 9:55	3/7/2013 15:47	-	-	$0
Bath County 4	MO	The unit needed to be off line to allow low side switching. No incremental cost occurred.	0.43	0.43	3/7/2013 15:47	3/7/2013 16:13	500.0	216.5	$0
Bath County 4	MO	The station emergency generator auto start PM was due and all units have to be off line to perform this procedure. No incremental cost occurred.	2.00	2.00	3/10/2013 10:00	3/10/2013 12:00	500.0	1,000.0	$0
Bath County 4	NC	Due to transmission work the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	9.50	-	3/12/2013 7:30	3/12/2013 17:00	-	-	$0
Bath County 4	NC	Due to transmission work the station was curtailed to 5 generators and 2 pumps. No incremental cost occurred.	0.82	-	3/19/2013 23:00	3/19/2013 23:49	-	-	$0
Bath County 4	NC	Due to transmission work the station was curtailed to 5 generators and 3 pumps. No incremental cost occurred.	72.75	-	4/21/2013 7:00	4/24/2013 7:45	-	-	$0
Bath County 4	NC	Due to transmission work the station was curtailed to 5 generators and 3 pumps. No incremental cost occurred.	82.00	-	5/6/2013 7:00	5/9/2013 17:00	-	-	$0
Bath County 4	NC	The station was limited to 3 generators and 2 pumps due to the 548 line being out for gassing. No incremental cost occurred.	2.40	-	5/15/2013 22:26	5/16/2013 0:50	-	-	$0
Bath County 4	NC	Due to transmission work the station was curtailed to 4 pumps. No incremental cost occurred.	1.18	-	5/20/2013 17:29	5/20/2013 18:40	-	-	$0
Bath County 4	MO	G/M breaker pole replacement. Incremental cost occurred to 67284487	63.43	63.43	5/28/2013 0:01	5/30/2013 15:27	501.3	31,799.0	$140
Bath County 4	U1	The unit's starting breaker position indicator failed when coming off line as a pump. Incremental cost occurred to 67649332	3.55	3.55	6/14/2013 7:32	6/14/2013 11:05	501.3	1,779.6	$13
Bath County 4	NC	When unit 4 came off line as a pump the starting breaker position indicator failed. Incremental cost occurred to 67649332	94.42	-	6/14/2013 11:05	6/18/2013 9:30	-	-	$0
Bath County 4	U1	Due to transmission work on the Lexington line the station was curtailed to 4 generators and 4 pumps. No incremental cost occurred.	3.58	3.58	6/18/2013 9:30	6/18/2013 13:05	501.3	1,796.2	$0
Bath County 4	MO	When unit 4 came off line as a pump the starting breaker position indicator failed. Incremental cost occurred to 67649332	9.42	9.42	6/19/2013 7:00	6/19/2013 16:25	501.3	4,720.7	$0
Bath County 4	NC	When unit 4 came off line as a pump the starting breaker position indicator failed. Incremental cost occurred to 67649332	326.58	-	6/19/2013 16:25	7/3/2013 7:00	-	-	$0
Bath County 4	MO	When unit 4 came off line as a pump the starting breaker position indicator failed. Incremental cost occurred to 676493	13.87	13.87	7/3/2013 7:00	7/3/2013 20:52	501.3	6,951.5	$13
Bath County 4	NC	Due to transmission work the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	47.93	-	7/28/2013 23:23	7/30/2013 23:19	-	-	$0
Bath County 4	NC	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps no incremental cost occurred	8.97	-	8/1/2013 10:10	8/1/2013 19:08	-	-	$0
Bath County 4	U1	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	69.53	69.53	8/1/2013 19:08	8/4/2013 16:40	501.3	34,856.9	$0

* Outage Type Key

U# = Unplanned Outage
MO = Maintenance Outage
PO = Planned Outage
SF = Start Failure
PD = Planned Derating

NC = Non curtailing Event
ME = Extension of Maintenance Outage
PE = Extension of Planned Outage
D# = Derates
DM = Maintenance Derate Extension

2013 Power Generation Outage Report
(Fossil & Hydro)

Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2013 Dates Start	2013 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Bath County 4	NC	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred	13.03	-	8/5/2013 0:38	8/5/2013 13:40	-	-	$0
Bath County 4	U1	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	23.23	23.23	8/5/2013 13:40	8/6/2013 12:54	501.3	11,646.7	$0
Bath County 4	U1	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred	19.05	19.05	8/6/2013 18:53	8/7/2013 13:56	501.3	9,549.8	$0
Bath County 4	U1	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	14.93	14.93	8/7/2013 22:18	8/8/2013 13:14	501.3	7,485.9	$0
Bath County 4	NC	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	14.85	-	8/8/2013 19:09	8/9/2013 10:00	-	-	$0
Bath County 4	U1	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	74.72	74.72	8/9/2013 10:00	8/12/2013 12:43	501.3	37,455.6	$0
Bath County 4	U1	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	33.43	33.43	8/12/2013 22:34	8/14/2013 8:00	501.3	16,760.0	$0
Bath County 4	U1	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	36.67	36.67	8/14/2013 11:00	8/15/2013 23:40	501.3	18,381.2	$0
Bath County 4	NC	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	24.33	-	8/16/2013 23:08	8/17/2013 23:28	-	-	$0
Bath County 4	U1	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	47.67	47.67	8/18/2013 22:13	8/20/2013 21:53	501.3	23,895.5	$0
Bath County 4	U1	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	24.52	24.52	8/21/2013 11:43	8/22/2013 12:14	501.3	12,290.4	$0
Bath County 4	U1	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	10.82	10.82	8/22/2013 22:31	8/23/2013 9:20	501.3	5,422.6	$0
Bath County 4	U1	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	50.45	50.45	8/23/2013 11:27	8/25/2013 13:54	501.3	25,290.6	$0
Bath County 4	U1	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	16.32	16.32	8/25/2013 22:18	8/26/2013 14:37	501.3	8,179.7	$0
Bath County 4	U1	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	62.60	62.60	8/26/2013 22:53	8/29/2013 13:29	501.3	31,381.4	$0
Bath County 4	U1	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	71.45	71.45	8/29/2013 22:38	9/1/2013 22:05	501.3	35,817.9	$0
Bath County 4	NC	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	1.53	-	9/1/2013 23:43	9/2/2013 1:15	-	-	$0
Bath County 4	U1	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	142.77	142.77	9/2/2013 1:15	9/8/2013 0:01	501.3	71,569.1	$0
Bath County 4	PO	The unit rotor is being replaced due to cracking. Incremental cost occurred to 13F4.1	726.98	726.98	9/8/2013 0:01	10/8/2013 7:00	501.3	364,436.6	$5
Bath County 4	PO	The unit rotor is being replaced due to cracking. Incremental cost occurred to 13F4.1	3.52	3.52	10/8/2013 11:30	10/8/2013 15:01	501.3	1,763.1	$0
Bath County 4	PO	The unit rotor is being replaced due to cracking. Incremental cost occurred to 13F4.1	4.27	4.27	10/8/2013 18:13	10/8/2013 22:29	501.3	2,139.0	$0
Bath County 4	PO	The unit rotor is being replaced due to cracking. Incremental cost occurred to 13F4.1	1.33	1.33	10/9/2013 6:38	10/9/2013 7:58	501.3	668.2	$0
Bath County 4	PO	The unit rotor is being replaced due to cracking. Incremental cost occurred to 13F4.1	9.82	9.82	10/9/2013 14:01	10/9/2013 23:50	501.3	4,921.3	$0
Bath County 4	PO	The unit rotor is being replaced due to cracking. Incremental cost occurred to 13F4.1	1.85	1.85	10/10/2013 5:42	10/10/2013 7:33	501.3	927.4	$0
Bath County 4	PO	The unit rotor is being replaced due to cracking. Incremental cost occurred to 13F4.1	97.10	97.10	10/10/2013 11:09	10/14/2013 12:15	501.3	48,676.2	$0
Bath County 4	NC	Due to transmission work on the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	85.17	-	11/2/2013 23:50	11/6/2013 12:00	-	-	$0
Bath County 4	NC	Due to transmission work on the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	13.48	-	11/7/2013 11:10	11/8/2013 0:39	-	-	$0
Bath County 4	NC	Due to transmission work on the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	249.17	-	11/8/2013 5:02	11/18/2013 14:12	-	-	$0
Bath County 4	NC	Due to transmission work the station is curtailed to 3 generators and 1 pump. No incremental cost occurred.	53.53	-	11/18/2013 22:28	11/21/2013 4:00	-	-	$0
Bath County 4	U1	Due to transmission work the station is curtailed to 3 generators and 1 pump. No incremental cost occurred.	2.48	2.48	11/21/2013 12:58	11/21/2013 15:27	501.3	1,244.7	$0
Bath County 4	NC	Due to transmission work the station is curtailed to 3 generators and 1 pump. No incremental cost occurred.	0.55	-	11/21/2013 15:27	11/21/2013 16:00	-	-	$0
Bath County 4	NC	Due to transmission work the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	56.05	-	11/21/2013 16:00	11/24/2013 0:03	-	-	$0
Bath County 4	MO	Due to the NERC separation project the SPS needed to be tested. No incremental cost occurred.	2.25	2.25	12/5/2013 12:00	12/5/2013 14:15	501.3	1,127.9	$0
Bath County 4	MO	Due to transmission work the stations was curtailed to 2 generators and 1 pump. No incremental cost occurred.	6.48	6.48	12/9/2013 10:00	12/9/2013 16:29	501.3	3,249.9	$0
Bath County 4	NC	Due to PJM not being able to see when the SPS was armed the station was only allow to pump with 3 units. No incremental cost occurred.	10.03	-	12/13/2013 2:58	12/13/2013 13:00	-	-	$0
Bath County 5	U1	The intake gates for power tunnel 3 were indicating closed when they were open. No incremental cost occurred.	2.23	2.23	2/5/2013 5:00	2/5/2013 7:14	501.0	1,118.7	$0
Bath County 5	MO	Pipe nipple leaking oil in the spherical valve hydraulic cabinet. Incremental cost occurred to 67600028.	1.67	1.67	2/13/2013 10:00	2/13/2013 11:40	501.0	835.2	$0
Bath County 5	U1	The unit tripped on line as a generator due to lose of auxiliary power. No incremental cost occurred.	0.43	0.43	3/7/2013 8:49	3/7/2013 9:15	501.0	216.9	$0

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* Outage Type Key

U# = Unplanned Outage
MO = Maintenance Outage
PO = Planned Outage
SF = Start Failure
PD = Planned Derating

NC = Non curtailing Event
ME = Extension of Maintenance Outage
PE = Extension of Planned Outage
D# = Derates
DM = Maintenance Derate Extension

2013 Power Generation Outage Report
(Fossil & Hydro)

Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2013 Dates Start	2013 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Bath County 5	MO	The station emergency generator auto start PM was due and all units have to be off line to perform this procedure. No incremental cost occurred.	2.00	2.00	3/10/2013 10:00	3/10/2013 12:00	501.0	1,002.0	$0
Bath County 5	MO	Bi-annual generator inspection was due. Incremental cost occurred to 13S5.1	39.73	39.73	3/19/2013 0:01	3/20/2013 15:45	501.0	19,906.2	$0
Bath County 5	NC	Due to transmission work the station was curtailed to 5 generators and 3 pumps. No incremental cost occurred.	17.20	-	4/24/2013 18:48	4/25/2013 12:00	-	-	$0
Bath County 5	NC	Due to transmission work the station was curtailed to 5 generators and 3 pumps. No incremental cost occurred.	82.00	-	5/6/2013 7:00	5/9/2013 17:00	-	-	$0
Bath County 5	MO	An outage was taken to upgrade the unit's fire protection system. No incremental cost occurred.	31.57	31.57	5/13/2013 7:00	5/14/2013 14:34	503.2	15,884.5	$0
Bath County 5	NC	Due to transmission work the station was curtailed to 4 pumps. No incremental cost occurred.	16.43	-	5/14/2013 14:34	5/15/2013 7:00	-	-	$0
Bath County 5	NC	Due to transmission work the station was curtailed to 4 pumps. No incremental cost occurred.	79.70	-	5/17/2013 17:00	5/21/2013 0:42	-	-	$0
Bath County 5	NC	Due to transmission work the station was curtailed to 4 pumps. No incremental cost occurred.	82.68	-	5/24/2013 13:20	5/28/2013 0:01	-	-	$0
Bath County 5	NC	Due to transmission work the station was curtailed to 4 pumps. No incremental cost occurred.	11.38	-	5/28/2013 0:37	5/28/2013 12:00	-	-	$0
Bath County 5	NC	Due to transmission work the station was curtailed to 5 pumps and 6 generators. No incremental cost occurred.	33.25	-	5/30/2013 15:00	6/1/2013 0:15	-	-	$0
Bath County 5	NC	Due to transmission work the station was curtailed to 5 generators and 3 pumps. No incremental cost occurred.	28.30	-	6/11/2013 6:00	6/12/2013 10:18	-	-	$0
Bath County 5	NC	When unit 4 came off line as a pump the starting breaker position indicator failed. Incremental cost occurred to 67649332	3.55	-	6/14/2013 7:32	6/14/2013 11:05	-	-	$0
Bath County 5	U1	Due to transmission work on the Lexington line the station was curtailed to 4 generators and 4 pumps. No incremental cost occurred.	3.58	3.58	6/18/2013 9:30	6/18/2013 13:05	503.2	1,803.0	$0
Bath County 5	U1	Due to transmission work the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	9.95	9.95	7/28/2013 23:23	7/29/2013 9:20	503.2	5,006.8	$0
Bath County 5	NC	Due to transmission work the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	11.45	-	7/30/2013 23:19	7/31/2013 10:46	-	-	$0
Bath County 5	U1	Due to transmission work the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	35.20	35.20	7/31/2013 0:46	8/1/2013 11:58	503.2	17,712.6	$0
Bath County 5	NC	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	21.70	-	8/3/2013 0:01	8/3/2013 21:43	-	-	$0
Bath County 5	U1	The unit tripped off line as a pump, the reservoir level is reading low. No incremental cost occurred.	0.08	0.08	8/5/2013 7:38	8/5/2013 7:43	503.2	41.8	$0
Bath County 5	NC	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	70.17	-	8/5/2013 13:40	8/8/2013 11:50	-	-	$0
Bath County 5	NC	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	23.33	-	8/9/2013 23:48	8/10/2013 23:08	-	-	$0
Bath County 5	NC	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred	24.27	-	8/12/2013 23:34	8/13/2013 23:50	-	-	$0
Bath County 5	NC	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	24.27	-	8/14/2013 23:39	8/15/2013 23:55	-	-	$0
Bath County 5	NC	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	50.55	-	8/19/2013 21:54	8/22/2013 0:27	-	-	$0
Bath County 5	NC	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	78.95	-	8/24/2013 1:03	8/27/2013 8:00	-	-	$0
Bath County 5	NC	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	58.73	-	8/29/2013 13:29	9/1/2013 0:13	-	-	$0
Bath County 5	NC	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	294.58	-	9/2/2013 23:17	9/15/2013 5:52	-	-	$0
Bath County 5	U1	Due to transmission work the station is curtailed to 2 generators and 1 pump. No incremental cost occurred.	37.37	37.37	9/15/2013 8:13	9/16/2013 21:35	503.2	18,803.1	$0
Bath County 5	U1	Due to transmission work the station is curtailed to 2 generators and 2 pumps. No incremental cost occurred.	47.38	47.38	9/16/2013 23:57	9/18/2013 23:20	503.2	23,843.1	$0
Bath County 5	U1	Due to transmission work the station is curtailed to 3 generators and 2 pumps. No incremental cost occurred.	22.45	22.45	9/19/2013 11:04	9/20/2013 9:31	503.2	11,296.8	$0
Bath County 5	NC	Due to transmission work the station is curtailed to 3 generators and 2 pumps. No incremental cost occurred.	37.08	-	9/28/2013 9:43	9/29/2013 22:48	-	-	$0
Bath County 5	U1	Due to transmission work the station is curtailed to 3 generators and 2 pumps. No incremental cost occurred.	11.62	11.62	9/29/2013 22:48	9/30/2013 10:25	503.2	5,845.7	$0
Bath County 5	NC	Due to transmission work the station is curtailed to 3 generators and 2 pumps. No incremental cost occurred.	60.72	-	9/30/2013 10:25	10/2/2013 23:08	-	-	$0
Bath County 5	NC	Due to transmission work the station is curtailed to 3 generators and 2 pumps. No incremental cost occurred.	6.17	-	10/3/2013 12:59	10/3/2013 19:09	-	-	$0
Bath County 5	MO	Due to transmission work the station is curtailed to 3 generators and 2 pumps. No incremental cost occurred.	16.25	16.25	10/3/2013 19:08	10/4/2013 11:23	503.2	8,177.0	$0
Bath County 5	NC	Due to transmission work the station is curtailed to 4 generators and 3 pumps. No incidental cost occurred.	47.72	-	10/14/2013 12:15	10/16/2013 11:58	-	-	$0
Bath County 5	U1	Due to transmission work the station is curtailed to 4 generators and 3 pumps. No incidental cost occurred.	20.17	20.17	10/16/2013 0:00	10/16/2013 20:10	503.2	10,148.0	$0
Bath County 5	U1	Due to transmission work the station is curtailed to 5 generators and 4 pumps. No incidental cost occurred	6.18	6.18	10/17/2013 17:49	10/18/2013 0:00	503.2	3,111.3	$0
Bath County 5	MO	Due to transmission work the station is curtailed to 5 generators and 4 pumps. No incidental cost occurred.	48.02	48.02	10/18/2013 0:00	10/20/2013 0:01	503.2	24,162.2	$0
Bath County 5	MO	The unit's DCS unit common points were moved to the new DCS. Incremental cost occurred to	3.00	3.00	10/24/2013 12:00	10/24/2013 15:00	503.2	1,509.6	$0
Bath County 5	NC	Due to transmission work on the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	35.80	-	11/1/2013 12:02	11/2/2013 23:50	-	-	$0
Bath County 5	U1	Due to transmission work on the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	18.33	18.33	11/5/2013 20:10	11/6/2013 14:30	503.2	9,225.2	$0
Bath County 5	NC	Due to transmission work on the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	4.38	-	11/8/2013 0:39	11/8/2013 5:02	-	-	$0
Bath County 5	U1	Due to transmission work on the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	1.98	1.98	11/9/2013 22:02	11/10/2013 0:01	503.2	997.8	$0
Bath County 5	PO	Due to NERC requirements the station was broken up to 3 operating systems. Incidental cost occurred to 13F5.1	280.78	280.78	11/10/2013 0:01	11/21/2013 16:48	503.2	141,290.0	$1
Bath County 5	NC	Due to transmission work the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	37.95	-	11/24/2013 0:03	11/25/2013 14:00	-	-	$0
Bath County 5	PO	Due to cracking the rotor needed to be replaced. Incremental cost occurred to 13F5.2	743.98	743.98	12/1/2013 0:01	1/30/2014 9:12	503.2	374,372.2	$11
Bath County 6	U1	The intake gates for power tunnel 3 were indicating closed when they were open. No incremental cost occurred.	1.45	1.45	2/5/2013 5:40	2/5/2013 7:07	500.0	725.0	$0

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PE = Extension of Planned Outage
D# = Derates
DM = Maintenance Derate Extension

2013 Power Generation Outage Report
(Fossil & Hydro)

Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2013 Dates Start	2013 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Bath County 6	MO	Due to transmission work the station was curtailed to 5 generators and 5 pumps. No incremental cost occurred.	8.00	8.00	2/5/2013 8:00	2/5/2013 16:00	500.0	4,000.0	$0
Bath County 6	U1	The unit lost its start permissive due to a thrust bearing oil pot reservoir RTD failure. Incremental cost occurred to	2.20	2.20	2/9/2013 14:25	2/9/2013 16:37	500.0	1,100.0	$0
Bath County 6	MO	The station emergency generator auto start PM was due and all units have to be off line to perform this procedure. No incremental cost occurred.	2.00	2.00	3/10/2013 10:00	3/10/2013 12:00	500.0	1,000.0	$0
Bath County 6	MO	B-annual generator inspection due. No incremental cost occurred.	41.48	41.48	3/25/2013 0:01	3/26/2013 17:30	500.0	20,741.5	$0
Bath County 6	MO	An outage was taken to upgrade the unit's fire protection system. No incremental cost occurred	31.00	31.00	5/15/2013 7:00	5/16/2013 14:00	504.0	15,624.0	$0
Bath County 6	NC	Due to transmission work the station was curtailed to 4 pumps. No incremental cost occurred.	17.00	-	5/16/2013 14:00	5/17/2013 7:00	-	-	$0
Bath County 6	NC	When unit 4 came off line as a pump the starting breaker position indicator failed. Incremental cost occurred to 67649332	3.55	-	6/14/2013 7:32	6/14/2013 11:05	-	-	$0
Bath County 6	U1	Due to transmission work the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	47.67	47.67	7/29/2013 9:20	7/31/2013 9:00	504.0	24,024.2	$0
Bath County 6	MO	The unit's shaft seal water flow is running low. No incremental cost occurred.	1.77	1.77	7/31/2013 9:00	7/31/2013 10:46	504.0	890.6	$0
Bath County 6	NC	Due to transmission work the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	23.40	-	7/31/2013 10:46	8/1/2013 10:10	-	-	$0
Bath County 6	MO	The shaft seal flow orifice was installed backward after trouble shooting the systems low flow. No incremental cost occurred.	1.28	1.28	8/1/2013 10:10	8/1/2013 11:27	504.0	646.6	$0
Bath County 6	NC	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	26.92	-	8/3/2013 21:43	8/5/2013 0:38	-	-	$0
Bath County 6	U1	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	8.37	8.37	8/7/2013 13:56	8/7/2013 22:18	504.0	4,217.0	$0
Bath County 6	U1	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred	5.92	5.92	8/8/2013 13:14	8/8/2013 19:09	504.0	2,982.2	$0
Bath County 6	NC	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	23.22	-	8/15/2013 23:55	8/16/2013 23:08	-	-	$0
Bath County 6	U1	e to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred	23.15	23.15	8/17/2013 23:04	8/18/2013 22:13	504.0	11,667.6	$0
Bath County 6	U1	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps.	8.40	8.40	8/25/2013 13:54	8/25/2013 22:18	504.0	4,233.6	$0
Bath County 6	U1	Due to transmission work the station was curtailed to 4 generators and 4 pumps. No incremental cost occurred.	8.00	8.00	8/27/2013 8:00	8/27/2013 16:00	504.0	4,032.0	$0
Bath County 6	NC	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	15.00	-	8/28/2013 22:29	8/29/2013 13:29	-	-	$0
Bath County 6	U1	Due to the Lexington - Cloverdale line being out the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	9.15	9.15	8/29/2013 13:29	8/29/2013 22:38	504.0	4,611.6	$0
Bath County 6	U1	Due to the Pruntytown to Mt Storm line being out the station is curtailed to 3 generators and 2 pumps. No incremental cost occurred.	2.35	2.35	9/10/2013 12:28	9/10/2013 14:49	504.0	1,184.4	$0
Bath County 6	NC	Due to transmission work the station is curtailed to 2 generators and 1 pump. No incremental cost occurred.	4.58	-	9/15/2013 18:13	9/15/2013 22:48	-	-	$0
Bath County 6	NC	Due to transmission work the station is curtailed to 2 generators and 1 pump. No incremental cost occurred.	2.17	-	9/16/2013 21:35	9/16/2013 23:45	-	-	$0
Bath County 6	U1	Due to transmission work the station is curtailed to 2 generators and 2 pumps. No incremental cost occurred.	11.73	11.73	9/18/2013 23:20	9/19/2013 11:04	504.0	5,913.4	$0
Bath County 6	NC	Due to transmission work the station is curtailed to 3 generators and 2 pumps. No incremental cost occurred.	48.98	-	9/20/2013 21:59	9/22/2013 22:58	-	-	$0
Bath County 6	U1	Due to transmission work the station is curtailed to 3 generators and 2 pumps. No incremental cost occurred.	58.75	58.75	9/25/2013 23:03	9/28/2013 9:48	504.0	29,610.0	$0
Bath County 6	NC	Due to transmission work the station is curtailed to 3 generators and 2 pumps. No incremental cost occurred.	11.62	-	9/29/2013 22:48	9/30/2013 10:25	-	-	$0
Bath County 6	MO	The unit has a pipe nipple leaking in the spherical valve cabinet. No incremental cost occurred.	5.00	5.00	10/2/2013 11:00	10/2/2013 16:00	504.0	2,520.0	$0
Bath County 6	MO	Due to transmission work the station is curtailed to 3 generators and 2 pumps. No incremental cost occurred.	0.48	0.48	10/2/2013 16:00	10/2/2013 16:29	504.0	243.4	$0
Bath County 6	U1	Due to transmission work the station is curtailed to 4 generators and 3 pumps. No incidental cost occurred.	8.23	8.23	10/15/2013 23:00	10/16/2013 7:14	504.0	4,149.4	$0
Bath County 6	U1	Due to transmission work the station is curtailed to 4 generators and 3 pumps. No incidental cost occurred.	20.73	20.73	10/16/2013 10:29	10/17/2013 7:13	504.0	10,449.4	$0
Bath County 6	U1	Due to transmission work the station is curtailed to 5 generators and 4 pumps. No incidental cost occurred	8.37	8.37	10/17/2013 9:27	10/17/2013 17:49	504.0	4,217.0	$0
Bath County 6	MO	The uni's DCS unit common points were moved to the new DCS. Incremental cost occurred to WBS# 50503.1.9	3.00	3.00	10/24/2013 12:00	10/24/2013 15:00	504.0	1,512.0	$0
Bath County 6	U1	Due to transmission work on the station is curtailed to 5 generators and 4 pumps. No incremental cost occurred.	2.98	2.98	11/9/2013 21:02	11/10/2013 0:01	504.0	1,503.4	$0
Bath County 6	PO	Due to NERC requirements the station was broken up to 3 operating systems. Incidental cost occurred to 13F6.1	283.60	283.60	11/10/2013 0:01	11/21/2013 19:37	504.0	142,934.4	$8
Bath County 6	MO	The outage was taken for low side station switching. No incremental cost occurred.	0.53	0.53	12/1/2013 8:28	12/1/2013 9:00	504.0	268.6	$0
Bath County 6	NC	The unit failed to start as a pump due not priming fast enough. No incremental cost occurred.	0.17	-	12/1/2013 12:04	12/1/2013 12:14	-	-	$0
Bath County 6	NC	The unit could not pump due not priming fast enough. No incremental cost occurred.	9.90	-	12/1/2013 12:14	12/1/2013 22:08	-	-	$0
Bath County 6	MO	Due to the NERC separation project the SPS needed to be tested. No incremental cost occurred.	2.25	2.25	12/5/2013 12:00	12/5/2013 14:15	504.0	1,134.0	$0
Bath County 6	NC	Due to transmission work the stations was curtailed to 2 generators and 1 pump. No incremental cost occurred.	6.48	-	12/9/2013 10:00	12/9/2013 16:29	-	-	$0
Bellemeade 1	D1	Work Order 67609154 While off line on economy Bellemeade Gas Turbine #2 was placed on a forced outage due to closing issues with the generator breaker.	47.25	25.07	3/5/2013 16:10	3/7/2013 15:25	139.0	6,567.8	$21
Bellemeade 1	PO	Bellemeade was in planned outage for Steam Turbine condenser tube replacement and GT inspection.	633.48	633.48	4/13/2013 0:00	5/9/2013 9:29	262.0	165,972.5	$966
Bellemeade 1	PO	Bellemeade was in planned outage for Steam Turbine condenser tube replacement and GT inspection.	3.33	3.33	5/9/2013 10:55	5/9/2013 14:15	262.0	873.2	$0
Bellemeade 1	PO	Bellemeade was in planned outage for Steam Turbine condenser tube replacement and GT inspection.	17.23	17.23	5/9/2013 15:02	5/10/2013 8:16	262.0	4,515.0	$0
Bellemeade 1	PO	Bellemeade was in planned outage for Steam Turbine condenser tube replacement and GT inspection.	27.87	27.87	5/10/2013 18:04	5/11/2013 21:56	262.0	7,301.2	$0
Bellemeade 1	D4	Work Order 67640090 Bellemeades HRSG #2 HP/HT economizer west side drain line developed a leak at the first elbow after exiting the HRSG..	21.80	11.82	5/24/2013 0:00	5/24/2013 21:48	142.0	3,095.5	$1
Bellemeade 1	D1	Failed Summer 2013 Capacity Test	4,393.00	1.44	6/1/2013 0:00	12/1/2013 0:00	0.1	385.3	$0

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2013 Power Generation Outage Report
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Bellemeade 1	D4	Bellemeade Gas Turbine #2 was unavailable due to leak in the HP/HT economizer header.	34.28	18.86	6/15/2013 6:00	6/16/2013 16:17	146.9	5,036.2	$0
Bellemeade 1	D1	Work Order 67656321 At 09:55 on 7/2/13, the Steam Turbine tripped off line due to an erroneous Generator LP Turbine End Vibration trip. A loose connector was found on the vibration probe.	1.05	0.56	7/2/2013 9:55	7/2/2013 10:58	141.9	149.0	$7
Bellemeade 1	D1	Work Order 67656321 At 11:17 on 7/2/13, the Steam Turbine tripped off line due to an erroneous Generator LP Turbine End Vibration trip. This trip was identical to the trip that occurred at 09:55.The cause of the trip is believed to be a cable failure between the steam turbine and the control room.	4.68	2.49	7/2/2013 11:17	7/2/2013 15:58	141.9	664.6	$0
Bellemeade 1	D1	WO 67660989 Bellemeade Steam Turbine tripped off line due to erroneous vibration trip on the LP Turbine Inlet Bearing (HP End).	6.90	3.67	7/7/2013 6:04	7/7/2013 12:58	141.9	979.1	$1
Bellemeade 1	SF	Work Order 67664118 Bellemeade was unable to start up due to a power oil switch found to be out of calibration on Gas Turbine #1 and a cabling issue on Gas Turbine #2.	2.07	2.07	7/15/2013 3:14	7/15/2013 5:18	267.0	551.9	$53
Bellemeade 1	D1	Work order 67665128 the Steam Turbine tripped due to DCS Ovation Controller issues.	4.32	2.21	7/18/2013 9:55	7/18/2013 14:14	136.9	590.9	$1
Bellemeade 1	MO	Work Order 67664118 Maintenance Outage - cable inspections/repairs due to squirrels	75.28	75.28	7/22/2013 7:00	7/25/2013 10:17	267.0	20,100.6	$0
Bellemeade 1	D4	Work Order 67664118 Maintenance Derate - for post outage testing cable inspections/repairs due to squirrels	7.67	1.20	7/25/2013 10:17	7/25/2013 17:57	41.9	321.2	$0
Bellemeade 1	D4	Work Order 67670095 Bellemeade HRSG #2 was placed on a maintenance derate due to a tube leak in the HP Evaporator was found.	15.67	8.62	7/31/2013 0:00	7/31/2013 15:40	146.9	2,301.5	$1
Bellemeade 1	D1	Work Order 67688410 Gas Turbine #2 tripped off line due to flame out. The root cause of this event was a failed positioner card for the fuel gas control valve in the gas turbine controls system.	17.22	9.47	9/12/2013 4:14	9/12/2013 21:27	146.9	2,529.0	$3
Bellemeade 1	D1	Work Order 67695803 Bellemeade Steam Turbine tripped due to high lube oil temperature during start up. HP event.	0.55	0.28	10/1/2013 4:03	10/1/2013 4:36	136.9	75.3	$0
Bellemeade 1	PO	Bellemeade had a planned outage for Steam Turbine Control Valve Inspection and Repair	463.52	463.52	10/5/2013 0:44	10/24/2013 8:15	267.0	123,759.0	$454
Bremo 3	MO	Waterwall tube leak. Order number 67590088. Work to be completed 01/30/13 @23:59	45.00	45.00	1/29/2013 0:00	1/30/2013 21:00	71.0	3,195.0	$2
Bremo 3	MO	Economizer Tube Leak Order Number 67597489	35.05	35.05	2/7/2013 7:00	2/8/2013 18:03	71.0	2,488.6	$5
Bremo 3	PO	Condenser Cleaning, Condensate Pump Suction Valve replacement, H2 Cooler Cleaning, and misc. valve repair	495.98	495.98	4/12/2013 0:01	5/2/2013 16:00	71.0	35,214.8	$126
Bremo 3	MO	Economizer tube leak. SC33 order number 67654129	4.90	4.90	6/27/2013 12:48	6/27/2013 17:42	71.0	347.9	$1
Bremo 3	D1	3B Feeder stopped-up	1.00	0.16	8/12/2013 19:00	8/12/2013 20:00	11.0	11.0	$0
Bremo 3	PO	Gas Conversion	2,713.00	2,713.00	9/10/2013 0:00	3/18/2014 17:19	71.0	192,623.0	$155
Bremo 4	D1	Governor motor stopped moving.	18.45	7.81	1/1/2013 18:00	1/2/2013 13:27	66.0	1,217.7	$0
Bremo 4	U1	Unit tripped on low condenser vacuum.	29.75	29.75	1/17/2013 17:50	1/18/2013 23:35	156.0	4,641.0	$0
Bremo 4	U1	Opacity Excursion	42.03	42.03	1/31/2013 2:19	2/1/2013 20:21	156.0	6,557.1	$0
Bremo 4	MO	Reheater Tube Leak Order No. 67596422	57.97	57.97	2/11/2013 1:50	2/13/2013 11:48	156.0	9,042.9	$4
Bremo 4	D1	High air-in leakage	14.00	1.35	3/6/2013 8:00	3/6/2013 22:00	15.0	210.0	$0
Bremo 4	D1	Defective wiring in 4A Primary Air Fan breaker cabinet.	32.78	11.56	3/10/2013 5:30	3/11/2013 14:17	55.0	1,803.0	$0
Bremo 4	U1	Economizer (67614091)and reheater (67605621) tube leak	78.87	78.87	3/18/2013 20:53	3/22/2013 3:45	156.0	12,303.3	$5
Bremo 4	U1	High level in first point heater. SC33 Event Order No's 67621501 and 67620856.	68.52	68.52	4/3/2013 3:29	4/6/2013 0:00	156.0	10,688.7	$6
Bremo 4	MO	First Point Heater Extraction Steam Isolation Valve	17.65	17.65	4/6/2013 0:00	4/6/2013 17:39	156.0	2,753.4	$0
Bremo 4	PO	Boiler Inspections, Turbine Valve Repair, Condenser Cleaning, Breaker PM, ESP Wash, APH Wash	711.50	711.50	5/3/2013 0:00	6/1/2013 15:30	156.0	110,994.0	$210
Bremo 4	MO	Uninterruptable Power Supply (UPS) Repair SC33 order 67661014	9.00	9.00	6/4/2013 8:00	6/4/2013 17:00	156.0	1,404.0	$0
Bremo 4	D1	High ID fan amps due to APH pluggage and duct leaks.	2.00	0.17	6/10/2013 19:00	6/10/2013 21:00	13.0	26.1	$0
Bremo 4	D1	High ID fan amps due to APH pluggage and duct leaks.	9.00	0.46	6/16/2013 14:00	6/16/2013 23:00	8.0	72.1	$0
Bremo 4	D1	High ID fan amps due to APH pluggage and duct leaks.	2.00	0.10	6/18/2013 10:00	6/18/2013 12:00	8.0	16.1	$0
Bremo 4	D1	High ID fan amps due to APH pluggage and duct leaks.	28.00	1.44	6/18/2013 15:00	6/19/2013 19:00	8.0	224.0	$0
Bremo 4	MO	Inspect APH and duct work to determine the source of high air-in leakage.	76.18	76.18	6/21/2013 2:04	6/24/2013 6:15	156.0	11,884.5	$0
Bremo 4	D1	High ID fan amps due to APH pluggage and duct leaks.	4.00	0.15	6/25/2013 20:00	6/26/2013 0:00	6.0	24.0	$0
Bremo 4	D1	High Opacity	4.00	0.26	6/26/2013 18:00	6/26/2013 22:00	10.0	39.9	$0
Bremo 4	D1	High ID fan amps due to APH pluggage and duct leaks.	4.00	0.54	7/4/2013 12:00	7/4/2013 16:00	21.0	83.9	$0
Bremo 4	D1	High ID fan amps due to APH pluggage and duct leaks.	7.00	0.49	7/5/2013 11:00	7/5/2013 18:00	11.0	77.1	$0
Bremo 4	D1	High ID fan amps due to APH pluggage and duct leaks	14.00	0.81	7/14/2013 10:00	7/15/2013 0:00	9.0	126.0	$0
Bremo 4	D1	High ID fan amps due to APH pluggage and duct leaks.	10.00	0.90	7/15/2013 8:00	7/15/2013 18:00	14.0	139.9	$0
Bremo 4	D1	High ID fan amps due to APH pluggage and duct leaks.	17.00	0.98	7/16/2013 8:00	7/17/2013 1:00	9.0	153.0	$0
Bremo 4	D1	High ID fan amps due to APH pluggage and duct leaks.	17.00	0.60	7/17/2013 7:00	7/18/2013 0:00	5.5	93.4	$0
Bremo 4	D1	Positioner on 4A superheat spray valve failed.	2.00	0.31	7/21/2013 12:00	7/21/2013 14:00	24.4	48.8	$0
Bremo 4	D1	High ID fan amps due to APH pluggage and duct leaks.	8.00	0.70	7/21/2013 15:00	7/21/2013 23:00	13.6	108.7	$0
Bremo 4	MO	FIRST POINT HEATER TUBE LEAK	38.33	36.33	8/10/2013 2:28	8/11/2013 14:48	156.0	5,667.9	$0
Bremo 4	D1	High ID fan amps due to APH pluggage and duct leaks.	7.00	0.31	8/13/2013 12:00	8/13/2013 19:00	7.0	49.0	$0
Bremo 4	U1	LOSS OF COAL FEEDERS	2.63	2.63	8/23/2013 7:59	8/23/2013 10:37	156.0	410.7	$0
Bremo 4	D1	High ID fan amps due to APH pluggage and duct leaks.	10.00	0.71	8/28/2013 8:00	8/28/2013 18:00	11.0	110.0	$0
Bremo 4	D1	High ID fan amps due to APH pluggage and duct leaks.	2.00	0.14	8/29/2013 9:00	8/29/2013 11:00	11.0	22.0	$0
Bremo 4	D1	Loss of 4A feeder	3.00	0.46	8/29/2013 12:00	8/29/2013 15:00	24.0	72.1	$0
Bremo 4	D1	High ID fan amps due to APH pluggage and duct leaks.	1.00	0.07	8/29/2013 17:00	8/29/2013 18:00	11.0	11.0	$0

* Outage Type Key

U# = Unplanned Outage
MO = Maintenance Outage
PO = Planned Outage
SF = Start Failure
PD = Planned Derating

NC = Non curtailing Event
ME = Extension of Maintenance Outage
PE = Extension of Planned Outage
D# = Derates
DM = Maintenance Derate Extension

2013 Power Generation Outage Report
(Fossil & Hydro)

Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2013 Dates Start	2013 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Bremo 4	PO	Gas Conversion	2,713.00	2,713.00	9/10/2013 0:00	3/31/2014 13:55	156.0	423,228.0	$78
Chesapeake 1	SF	U1 turbine latching issue	5.00	5.00	1/22/2013 3:00	1/22/2013 8:00	111.0	555.0	$0
Chesapeake 1	D1	U1 FW pump unable to start worked under S/U WO 67500871	5.42	2.54	3/4/2013 5:00	3/4/2013 10:25	52.0	281.7	$0
Chesapeake 1	U1	U1 trip due to high drum level	4.42	4.42	3/4/2013 19:09	3/4/2013 23:34	111.0	490.3	$0
Chesapeake 1	PO	U1 Planned Outage is for Cleaning Condenser Tubes and Perform DA 5 yr. NDE Inspection, (W.O. # 67612724 & 67611838)	167.87	167.87	4/27/2013 0:01	5/3/2013 23:53	111.0	18,633.2	$0
Chesapeake 1	U1	U1 ASW line broke where it connects to the River Circ. Water tunnel causing the entire basement to flood (W.O #67643707).	52.70	52.70	6/1/2013 15:42	6/3/2013 20:24	111.0	5,849.7	$25
Chesapeake 1	D1	U1 was derate 50 nMW due to 1B FD fan meggaring bad (W.O. #66883306)	9.45	4.26	6/24/2013 10:25	6/24/2013 19:52	50.0	472.5	$7
Chesapeake 1	D1	U1was derated to 49 NMWs due to a tension roller failure on D" Coal Conveying belt. (W.O. 67663743)"	22.62	12.63	7/16/2013 11:49	7/17/2013 10:26	62.0	1,402.3	$8
Chesapeake 1	D1	U1 Derate due to temperature control issues on RH section.	8.77	1.50	9/10/2013 10:59	9/10/2013 19:45	18.9	165.9	$0
Chesapeake 1	MO	Unit 1 Maintenance outage for stack masonry sampling and Switchyard work. W.O. 67709689	64.17	64.17	11/24/2013 0:01	11/26/2013 16:11	111.0	7,122.5	$0
Chesapeake 2	D1	Unit 2 derate due to unable to start either condensate booster pump	4.38	3.24	1/22/2013 3:11	1/22/2013 7:34	82.0	359.4	$0
Chesapeake 2	U1	U2 Boiler tube leak caused unit to trip. The tube leak was located on Grade 45, just above corner #5 W/O # 67592667	34.23	34.23	1/27/2013 20:16	1/29/2013 6:30	111.0	3,799.9	$5
Chesapeake 2	PO	U2 Planned Outage is for Condenser Tube Cleaning (W.O. # 67500087)	161.12	161.12	4/20/2013 0:00	4/26/2013 17:07	111.0	17,884.0	$4
Chesapeake 2	SF	U2 Fuel oil leaked into air lines	7.00	7.00	5/29/2013 7:00	5/29/2013 14:00	111.0	777.0	$0
Chesapeake 2	U1	U2 removed from service due to a suspected ruptured River Circ. Water pipe or branch line beneath the basement floor.	11.13	11.13	6/1/2013 13:49	6/2/2013 0:57	111.0	1,235.8	$0
Chesapeake 2	SF	U2 Start Failure was due to an Operator Error" in the use of the Sync. Transfer switch (1-EPH-CS-43)."	4.08	4.08	6/24/2013 8:00	6/24/2013 12:05	111.0	453.2	$0
Chesapeake 2	U1	U2 taken off line due to tube leak W/O #67654713	45.52	45.52	6/27/2013 12:27	6/29/2013 9:58	111.0	5,052.4	$5
Chesapeake 2	D1	U2 was derated to 49 NMWs due to a tension roller failure on D" Coal Conveying belt (W.O. 67663743)"	22.62	12.63	7/16/2013 11:49	7/17/2013 10:26	62.0	1,402.3	$11
Chesapeake 2	U1	U2 was forced off-line due to a tube leak in B" Furnace. (W.O. 67665563)"	40.45	40.45	7/19/2013 15:38	7/21/2013 8:05	111.0	4,490.0	$14
Chesapeake 2	D1	U2 was derated to 50 NMW due to high vibration on A" FD fan bearings (WO # 67667207)."	22.78	12.52	7/24/2013 0:01	7/24/2013 22:48	61.0	1,389.8	$3
Chesapeake 2	U1	U2 trip due to Exhaust Temp High Trip after coming on line.	4.23	4.23	10/1/2013 9:45	10/1/2013 13:59	111.0	469.9	$0
Chesapeake 2	SF	Unit 2 experienced ignition oil and scanner problems during startup. W.O. 66445531	6.98	6.98	11/11/2013 1:59	11/11/2013 8:58	111.0	775.1	$0
Chesapeake 2	MO	U2 Maintenance Outage. W.O. 67629546 &W.O. 67461974	256.57	256.57	11/17/2013 0:01	11/27/2013 16:35	111.0	28,478.9	$37
Chesapeake 3	NC	U3 Turbine Valve Test (No Incremental Costs)	0.73	-	1/6/2013 1:01	1/6/2013 1:45	-	-	$0
Chesapeake 3	MO	U3 Maintenance Outage -Boiler Tube Leak due to suspected external corrosion / erosion. Wo#67585365	33.73	33.73	1/11/2013 0:02	1/12/2013 9:46	147.0	4,958.8	$2
Chesapeake 3	NC	U3 Turbine Valve Test (No Incremental Costs)	1.05	-	2/3/2013 0:54	2/3/2013 1:57	-	-	$0
Chesapeake 3	U1	U3 RH tube leak Work Order 67599114	51.97	51.97	2/6/2013 23:02	2/9/2013 3:00	147.0	7,639.1	$0
Chesapeake 3	NC	U3 Turbine Valve Test (No incremental costs)	0.58	-	2/23/2013 0:00	2/23/2013 0:35	-	-	$0
Chesapeake 3	NC	U3 Turbine valve test (No incremental costs)	0.52	-	3/1/2013 13:05	3/1/2013 13:36	-	-	$0
Chesapeake 3	D1	Coal mill fire and subsequent boiler pressure swing causing loss of MW	3.57	0.44	3/6/2013 14:17	3/6/2013 17:51	18.0	64.2	$0
Chesapeake 3	NC	U3 Turbine Valve Test (no incremental costs)	0.28	-	3/17/2013 0:45	3/17/2013 1:02	-	-	$0
Chesapeake 3	NC	U3 Turbine valve test (no incremental costs)	1.47	-	3/31/2013 0:07	3/31/2013 1:35	-	-	$0
Chesapeake 3	MO	U3 Maintenance Outage for Coal Pipe Hanger Failure Inspection & Repair (W.O. # 67614194):	234.77	234.77	4/7/2013 0:59	4/16/2013 19:45	147.0	34,510.7	$80
Chesapeake 3	NC	U3 turbine valve test (no incremental costs)	0.63	-	5/4/2013 0:04	5/4/2013 0:42	-	-	$0
Chesapeake 3	NC	U3 Turbine Valve Test (No Incremental Cost)	0.25	-	5/17/2013 23:52	5/18/2013 0:07	-	-	$0
Chesapeake 3	NC	U3 Turbine Valve Test (no incremental costs)	1.73	-	5/24/2013 2:03	5/24/2013 3:47	-	-	$0
Chesapeake 3	D1	3A Coal Mill Inspection	8.00	2.01	5/28/2013 7:00	5/28/2013 15:00	37.0	296.1	$0
Chesapeake 3	D1	3C spring adjustment and inspection	8.53	2.15	5/29/2013 7:00	5/29/2013 15:32	37.0	315.8	$0
Chesapeake 3	D4	U3 A" mill Scheduled for a 110 NMW derate to perform internal inspection and ball check (WO 67628221)."	11.58	2.92	6/5/2013 5:00	6/5/2013 16:35	37.0	428.7	$1
Chesapeake 3	D4	U3 D" mill scheduled for a 110 NMW derate to perform internal inspection and ball check (WO 67602691)"	10.15	2.76	6/6/2013 5:00	6/6/2013 15:09	40.0	406.0	$2
Chesapeake 3	D1	U3 A" mill coal leak repair on burner fuel pipe A4 (W.O. 67646188)."	5.53	0.15	6/6/2013 14:46	6/6/2013 20:18	4.0	22.2	$1
Chesapeake 3	NC	U3 Turbine Valve test (no incremental cost0	1.63	-	6/8/2013 0:01	6/8/2013 1:39	-	-	$0
Chesapeake 3	D1	U3 derated to 110 NMWs due to a coal leak in 3A burner pipe (W.O. # 67650622)	6.85	1.72	6/19/2013 5:35	6/19/2013 12:26	37.0	253.4	$0
Chesapeake 3	NC	U3 Turbine Valve test (No incremental Costs)	1.62	-	6/21/2013 23:55	6/22/2013 1:32	-	-	$0
Chesapeake 3	NC	U3 Turbine Valve Test (No incremental costs)	0.65	-	7/5/2013 23:51	7/6/2013 0:30	-	-	$0
Chesapeake 3	D1	U3 was derate 37 nMW due to coal leak on 3C pulverizer (W.O. 67647558)	5.25	1.32	7/8/2013 16:45	7/8/2013 22:00	37.0	194.2	$0
Chesapeake 3	D1	U3 was derated 37 MWs due to rocks in C feeders.	3.25	0.82	7/11/2013 13:45	7/11/2013 17:00	37.0	120.2	$0
Chesapeake 3	D1	U3 derated to 73 NMWs due to a tension roller failure on D" Coal conveying belt. (W.O. 67663743)"	22.60	11.38	7/16/2013 11:49	7/17/2013 10:25	74.0	1,672.4	$8
Chesapeake 3	D4	U3 derated to 110 NMW due to 3C coal mill inspection, ball add, and balance PA fan. (WO # 67619122 & 67646451)	17.87	4.50	7/25/2013 5:00	7/25/2013 22:52	37.0	661.1	$3
Chesapeake 3	NC	U3 Turbine Valve Test (No incremental costs)	0.45	-	7/27/2013 0:01	7/27/2013 0:28	-	-	$0
Chesapeake 3	D4	U3 Bunker drawdown was to clear smoldering and bridging coal in bunker hoppers (W.O.# 67626254)	6.27	3.49	8/8/2013 10:43	8/8/2013 16:59	81.9	513.2	$0
Chesapeake 3	D4	U3 Bunker drawdown was clear smoldering and bridging coal in bunker. (W.O. # 67626254)	7.28	3.21	8/9/2013 12:09	8/9/2013 19:26	64.8	472.0	$0
Chesapeake 3	D4	U3 Bunker drawdown was to clear out smoldering and bridging coal in bunker. (W.O. # 67626254)	16.07	8.66	8/10/2013 8:15	8/11/2013 0:19	79.2	1,272.4	$0
Chesapeake 3	D4	U3 Bunker drawdown was to clear smoldering and bridging coal in the A, C, and D bunker hoppers. (W.O. # 67626254)	3.20	1.19	8/11/2013 4:50	8/11/2013 8:02	54.6	174.8	$0
Chesapeake 3	D4	U3 Bunker drawdown was to clear out smoldering and bridging coal in the A, C, and D bunker hoppers. (W.O. # 67626254)	2.53	0.99	8/11/2013 21:27	8/11/2013 23:59	57.7	146.1	$0
Chesapeake 3	D1	U3 D mill coal leaks on the burner pipes W.O. 67674898	78.95	19.87	8/12/2013 2:37	8/15/2013 9:34	37.0	2,921.2	$2

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* Outage Type Key

U# = Unplanned Outage
MO = Maintenance Outage
PO = Planned Outage
SF = Start Failure
PD = Planned Derating

NC = Non curtailing Event
ME = Extension of Maintenance Outage
PE = Extension of Planned Outage
D# = Derates
DM = Maintenance Derate Extension

2013 Power Generation Outage Report
(Fossil & Hydro)

Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2013 Dates Start	2013 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Chesapeake 3	MO	U3 Maintenance outage was to do a bunker drawdown to remove smoldering coal. (WO#67626254)	69.17	69.17	8/17/2013 0:10	8/19/2013 21:20	147.0	10,167.5	$74
Chesapeake 3	NC	U3 Turbine Valve Test (No incremental costs)	0.42	-	8/26/2013 0:58	8/26/2013 1:23	-	-	$0
Chesapeake 3	MO	U3 M.O. was to investigate and repair a voltage regulator ground alarm. W.O. 67637426	585.10	585.10	9/1/2013 2:52	9/25/2013 11:58	147.0	86,009.7	$3
Chesapeake 3	MO	U3 Maintenance Outage was due to required Battery System maintenance. W.O. # 67689632.	111.53	111.53	9/28/2013 0:01	10/2/2013 15:33	147.0	16,395.4	$23
Chesapeake 3	D1	U3 Derated 77 MWs due to Oil gun issues no allowing coal mills to be placed in service. W.O. 66445570	12.32	6.45	10/3/2013 8:25	10/3/2013 20:44	77.0	948.4	$14
Chesapeake 3	D1	U3 derated 37 MW due 3A Primary Air Fan high vibration. W.O. # 67697596.	5.75	1.45	10/6/2013 6:22	10/6/2013 12:07	37.0	212.7	$1
Chesapeake 3	NC	U3 Turbine Valve Test (No incremental cost)	0.40	-	10/26/2013 0:24	10/26/2013 0:48	-	-	$0
Chesapeake 3	D4	Unit 3 was derated 37 MWs for clinker removal WO 67706829.	4.30	1.08	11/7/2013 0:02	11/7/2013 4:20	37.0	159.1	$4
Chesapeake 3	U1	U3 Boiler Tube leak outage WO #67714011	33.08	33.08	11/20/2013 5:09	11/21/2013 14:14	147.0	4,863.2	$9
Chesapeake 3	NC	U3 Turbine Valve Test (No incremental Costs)	1.07	-	12/7/2013 0:08	12/7/2013 1:12	-	-	$0
Chesapeake 3	MO	U3 Maintenance Outage due to tube leaks in the ashpit. W.O. 67721590	35.12	35.12	12/14/2013 1:58	12/15/2013 13:05	147.0	5,162.2	$17
Chesapeake 3	U1	U3 tripped due to high backpressure	3.50	3.50	12/16/2013 5:47	12/16/2013 9:17	147.0	514.5	$0
Chesapeake 3	NC	U3 Turbine Valve Test (No incremental cost)	0.85	-	12/28/2013 0:13	12/28/2013 1:04	-	-	$0
Chesapeake 4	U1	Boiler Feedwater Pump Turbine (BFPT) tripped due to ElectroHydraulicControl (EHC) issues, causing a boiler trip due to low drum level.	6.80	6.80	3/7/2013 3:54	3/7/2013 10:42	207.0	1,407.6	$0
Chesapeake 4	NC	U4 Turbine Valve Test (No incremental cost)	1.07	-	3/23/2013 2:03	3/23/2013 3:07	-	-	$0
Chesapeake 4	PO	U4 Planned Outage WO 67612745 (Turbine thrust bearing inspection and repair)	498.50	498.50	3/29/2013 2:15	4/18/2013 20:45	207.0	103,189.5	$116
Chesapeake 4	D1	U4 Thrust Bearing & Axial Position Issues during startup (W.O. # 67612745)	293.05	14.74	4/22/2013 7:00	5/4/2013 12:03	69.0	3,051.0	$0
Chesapeake 4	MO	U4 M.O. is to address the turbine thrust bearing axial position issues (W.O. # 67612745) :	164.77	164.77	4/24/2013 3:13	4/30/2013 23:59	207.0	34,106.8	$0
Chesapeake 4	ME	tube leak in lower dead air space at left sidewall	84.07	84.07	4/30/2013 23:59	5/4/2013 12:03	207.0	17,401.9	$0
Chesapeake 4	D1	U4 A" BCW pump tripped out due to "instantous" ground on B & C Phase."	242.07	14.07	5/5/2013 21:57	5/16/2013 0:01	17.0	2,912.9	$0
Chesapeake 4	MO	Replace A" BCW Pump WO"	70.72	70.72	5/13/2013 1:18	5/16/2013 0:01	207.0	14,638.4	$199
Chesapeake 4	NC	U4Turbine Valve test (no incremental costs)	1.75	-	5/26/2013 1:00	5/26/2013 2:45	-	-	$0
Chesapeake 4	U1	U4 was removed from service due to a ruptured ASW line on U1 which flooded U4 Condensate pit. (WO 67642814 & 67644367)	241.82	241.82	6/1/2013 16:29	6/11/2013 18:18	207.0	50,056.1	$105
Chesapeake 4	D1	U4 was derated due to 4B Condensate Pump Motor installation issues. (WO # 67644367)	3.17	0.84	6/12/2013 11:57	6/12/2013 15:07	55.0	174.1	$0
Chesapeake 4	NC	U4 Turbine Valve Test (No Incremental Costs)	0.62	-	6/22/2013 1:33	6/22/2013 2:10	-	-	$0
Chesapeake 4	NC	U4 Turbine Valve Test (No incremental costs)	1.18	-	7/6/2013 0:34	7/6/2013 1:45	-	-	$0
Chesapeake 4	D1	U4 derated to 141 NMWs due to a tension roller failure on D" Coal Conveying belt. (W.O. 67663743)."	22.60	7.21	7/16/2013 11:49	7/17/2013 10:25	66.0	1,491.6	$8
Chesapeake 4	NC	U4 Turbine Valve Test (No incremental costs)	0.78	-	7/27/2013 0:33	7/27/2013 1:20	-	-	$0
Chesapeake 4	MO	U4 Maintenance Outage for Battery system maintenance WO#	111.53	111.53	9/28/2013 0:01	10/2/2013 15:33	207.0	23,087.3	$0
Chesapeake CT1	MO	67534153 - FREE TURBINE INSPECTION/REPAIR	254.37	254.37	9/10/2012 7:00	1/11/2013 14:22	14.9	3,790.1	$40
Chesapeake CT1	U1	67534153 - HIGH VIBRATION DURING UNIT TESTING	0.42	0.42	1/11/2013 14:24	1/11/2013 14:49	14.9	6.2	$0
Chesapeake CT1	MO	67608934 - ANNUAL BLACK START TESTING	3.60	3.60	5/2/2013 7:00	5/2/2013 10:36	14.9	53.6	$0
Chesapeake CT1	D1	Failed Summer 2013 Capacity Test	4,393.00	117.77	6/1/2013 0:00	12/1/2013 0:00	0.4	1,754.8	$0
Chesapeake CT1	MO	67662121 - PROTECTIVE RELAY TESTING	6.12	6.12	7/11/2013 7:00	7/11/2013 13:07	14.9	91.1	$0
Chesapeake CT2	MO	67691443 - EXHAUST STACK INSPECTION	7.00	7.00	9/24/2013 7:00	9/24/2013 14:00	12.0	84.0	$2
Chesapeake CT2	MO	67695910 - REPAIR HOLES IN EXHAUST STACK	79.00	79.00	10/21/2013 7:00	10/24/2013 14:00	12.0	948.0	$4
Chesapeake CT4	U1	67688251 - TURBINE SHAFT COUPLING FAILURE	879.33	879.33	9/11/2013 16:10	10/18/2013 7:30	12.0	10,552.0	$35
Chesapeake CT4	MO	67688251 - AUXILIARY GEARBOX ALIGNMENT	49.00	49.00	10/21/2013 7:00	10/23/2013 8:00	12.0	588.0	$0
Chesapeake CT6	U1	67670667 - EXHAUST DUCT DAMAGE	2.17	2.17	7/31/2013 9:20	7/31/2013 11:30	12.0	26.0	$0
Chesapeake CT6	MO	67670667 - EXHAUST DUCT REPAIRS	40.92	40.92	8/1/2013 7:00	8/2/2013 23:55	12.0	491.0	$15
Chesapeake CT6	MO	67692305 - EXHAUST STACK DRAIN REPAIRS	8.50	8.50	9/26/2013 7:00	9/26/2013 15:30	12.0	102.0	$3
Chesterfield 3	U1	Unit tripped due to loss of vacuum. River circ pump phase faults.	5.72	5.72	1/24/2013 6:47	1/24/2013 12:30	100.0	571.7	$84
Chesterfield 3	D1	Unit 3 Derate due to ESP Field Trip	3.23	2.10	1/26/2013 9:15	1/26/2013 12:29	65.0	210.2	$0
Chesterfield 3	D1	Unit 3 Derate due to Feeder Issues/Alignment	1.00	0.33	3/4/2013 4:18	3/4/2013 5:18	33.0	33.0	$0
Chesterfield 3	D1	Unit 3 ID Fans Max Out	159.03	12.72	3/5/2013 8:36	3/12/2013 0:38	8.0	1,272.3	$0
Chesterfield 3	D1	U3 Derated Due to Wet Coal/Loosing Coal Feeders	16.08	3.06	3/7/2013 9:20	3/8/2013 1:25	19.0	305.6	$0
Chesterfield 3	D1	Unit 3 Derate Due to repairs on D Feeder WO#67610448	5.35	0.91	3/8/2013 8:05	3/8/2013 13:26	17.0	91.0	$0
Chesterfield 3	D1	U3 Derate Due to Belt Alignment Issue WO#67610784	8.97	1.52	3/9/2013 9:26	3/9/2013 18:24	17.0	152.4	$2
Chesterfield 3	D1	U3 Derate Due to Wet Coal	1.87	0.71	3/10/2013 7:05	3/10/2013 8:57	38.0	70.9	$0
Chesterfield 3	D1	U3 Derate Due to Issue with Alpha Feeder	0.83	0.19	3/11/2013 8:44	3/11/2013 9:34	23.0	19.2	$0
Chesterfield 3	PO	Unit 3 Planned Outage to Inspection Scrubber	439.00	439.00	4/13/2013 0:00	5/1/2013 7:00	100.0	43,900.0	$0
Chesterfield 3	D1	Unit 3 Derate - High Opacity	1.83	0.42	6/1/2013 11:00	6/1/2013 12:50	22.5	41.2	$0
Chesterfield 3	D1	Unit 3 Derate - High Opacity	1.83	0.42	6/1/2013 13:29	6/1/2013 15:19	22.5	41.2	$0
Chesterfield 3	D1	Unit 3 Derate Due to Opacity Issues	82.68	11.45	6/24/2013 14:03	6/28/2013 0:44	13.5	1,116.2	$0
Chesterfield 3	D1	Unit 3 Derate Due to Mill Loading Issue	0.30	0.09	7/15/2013 18:14	7/15/2013 18:32	30.5	9.2	$0
Chesterfield 3	D1	Unit 3 Derate Due to Charlie Feeder Issues.	2.17	0.61	7/22/2013 21:50	7/23/2013 0:00	27.5	59.5	$0

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D# = Derates
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Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2013 Dates Start	2013 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Chesterfield 3	D1	Unit 3 Derate Due to Feeders Issues	5.60	4.74	7/23/2013 6:54	7/23/2013 12:30	82.5	462.0	$0
Chesterfield 3	D1	Unit 3 Derate Due to Delta Mill	0.88	0.31	7/23/2013 17:13	7/23/2013 18:06	34.5	30.5	$0
Chesterfield 3	D1	Unit 3 Derate Due to Charlie Feeder	1.37	0.55	7/24/2013 1:00	7/24/2013 2:22	39.5	54.0	$0
Chesterfield 3	D1	Unit 3 Derate due to Alpha Feeder	0.65	0.23	7/24/2013 4:30	7/24/2013 5:09	34.5	22.4	$0
Chesterfield 3	D1	Unit 3 Derate Due to Alpha, Bravo and Delta Feeders	1.13	0.97	7/24/2013 7:35	7/24/2013 8:43	83.5	94.7	$0
Chesterfield 3	PO	Unit 3 Outage (Scrubber Inspection)	1,003.48	1,003.48	9/29/2013 0:01	11/9/2013 18:30	97.5	97,839.8	$0
Chesterfield 4	U1	Unit tripped on loss of flame due to failed DA level controller. NIC	9.97	9.97	1/19/2013 8:16	1/19/2013 18:14	163.0	1,624.6	$0
Chesterfield 4	D4	Sleeve on west roller journal bearing of 4C mill has worked its way out. Derate to repair. Order # 67589244	4.95	1.22	1/20/2013 17:21	1/20/2013 22:18	40.0	198.0	$1
Chesterfield 4	U1	U4 Trip - Block Flow Path to SCR	3.92	3.92	2/23/2013 4:05	2/23/2013 8:00	163.0	638.5	$0
Chesterfield 4	D1	Unit 4 Derated Due to Broken Wiper Arm WO# 67608687	7.67	3.43	3/4/2013 21:24	3/5/2013 5:04	73.0	559.7	$0
Chesterfield 4	D1	U4 Derate Due to Loss of Coal to Bravo Feeder	0.53	0.11	3/8/2013 8:58	3/8/2013 9:30	32.0	17.1	$0
Chesterfield 4	U1	Unit 4 Trip Due to High Back Pressure	1.02	1.02	3/19/2013 16:05	3/19/2013 17:06	163.0	165.8	$0
Chesterfield 4	D1	Unit 4 Derate due to Charlie Feeder Trip	0.27	0.06	3/26/2013 8:54	3/26/2013 9:10	36.0	9.6	$0
Chesterfield 4	PO	Unit 4 in Planned Outage to Inspect Scrubber and Fix Tube Leaks	983.02	983.02	4/13/2013 0:01	5/23/2013 23:02	163.0	160,231.8	$63
Chesterfield 4	D1	Derate - Rock in Bravo Feeder	2.55	1.33	6/7/2013 17:27	6/7/2013 20:00	85.0	216.8	$0
Chesterfield 4	D1	Derate - Rock in Charlie Feeder	0.17	0.06	6/12/2013 8:30	6/12/2013 8:40	57.0	9.5	$0
Chesterfield 4	D1	Derate - Rock in Delta Feeder	0.40	0.09	6/12/2013 18:55	6/12/2013 19:19	35.0	14.0	$0
Chesterfield 4	D1	Derate - Rock in Delta Feeder	0.33	0.16	6/15/2013 0:40	6/15/2013 1:00	76.0	25.3	$0
Chesterfield 4	D1	Derate - Rock in Charlie Feeder	0.45	0.21	6/17/2013 0:33	6/17/2013 1:00	76.0	34.2	$0
Chesterfield 4	MO	Unit Outage - Remove Charlie BCP	26.02	26.02	6/20/2013 0:51	6/21/2013 2:52	163.0	4,240.8	$102
Chesterfield 4	D1	Derate - Rock in Alpha Feeder	1.33	0.54	6/21/2013 9:36	6/21/2013 10:56	66.0	88.0	$0
Chesterfield 4	U1	Unit Outage - Alpha BCP failure	129.25	129.25	6/21/2013 22:01	6/27/2013 7:16	163.0	21,067.8	$5
Chesterfield 4	D1	Unit 4 derate due to feeder issue.	0.17	0.06	7/7/2013 10:18	7/7/2013 10:28	58.0	9.6	$0
Chesterfield 4	D1	Unit 4 Derate Due to Delta Feeder	0.12	0.03	7/9/2013 22:07	7/9/2013 22:14	47.0	5.5	$0
Chesterfield 4	U1	Unit 4 tube leak on front and rear water wall WO# (67662850)	76.28	76.28	7/14/2013 0:04	7/17/2013 4:21	163.0	12,434.1	$43
Chesterfield 4	D1	Unit 4 Derate due to Charlie Feeder	0.07	0.02	7/19/2013 14:00	7/19/2013 14:04	49.0	3.3	$0
Chesterfield 4	D1	Unit 4 Derate Due to Coal Leak on Delta Mill - Notification # H30171	1.98	0.89	8/1/2013 19:59	8/1/2013 21:58	73.0	144.7	$0
Chesterfield 4	D4	Derate for steam turbine valve testing. NIC	1.25	0.55	8/31/2013 0:14	8/31/2013 1:29	72.0	90.0	$0
Chesterfield 4	MO	Unit 4 Tube Leak WO#67676104	158.22	158.22	9/14/2013 1:17	9/20/2013 15:30	163.0	25,789.4	$22
Chesterfield 4	PO	Unit 4 Outage (Scrubber Inspection)	1,007.63	1,007.63	9/29/2013 0:01	11/9/2013 22:39	163.0	164,244.2	$58
Chesterfield 4	MO	Unit 4 Outage - Install A BCW pump and fix tube leak WO#: 67652050, 67717200	233.50	233.50	12/2/2013 1:00	12/11/2013 18:30	163.0	38,060.5	$342
Chesterfield 4	U1	Unit 4 Trip due to thermal overload of 4A BCW pump.	5.80	5.80	12/12/2013 16:35	12/12/2013 22:23	163.0	945.4	$0
Chesterfield 4	D1	Unit 4 derate due to failure of B BFP	432.85	180.58	12/13/2013 23:09	1/5/2014 11:30	68.0	29,433.7	$0
Chesterfield 5	D1	5C feeder trip. NIC	0.12	0.02	1/18/2013 17:45	1/18/2013 17:52	59.0	6.9	$0
Chesterfield 5	D1	5A feeder trip. NIC	0.15	0.03	1/22/2013 9:42	1/22/2013 9:51	59.0	8.9	$0
Chesterfield 5	D1	Charlie C" feeder tripped causing an eventual reduction on boiler output/load."	0.12	0.01	2/1/2013 15:20	2/1/2013 15:27	23.0	2.6	$0
Chesterfield 5	D4	Steam Turbine Valves Bi-Weekly Test	0.98	0.14	2/2/2013 1:54	2/2/2013 2:53	47.0	46.1	$0
Chesterfield 5	D1	Unit Forced Derated to 280 net mw's due to high differentials across both Air Preheaters.	5.05	0.75	2/9/2013 16:47	2/9/2013 21:50	49.0	247.4	$0
Chesterfield 5	U1	Unit Forced Off Line due to high differentials across both Air Preheaters and to proceed with A" and "B" Air Preheaters wash."	50.65	50.65	2/9/2013 21:51	2/12/2013 0:30	329.0	16,663.9	$20
Chesterfield 5	D1	A feeder tripped due to rock in feeder. NIC	0.20	0.03	2/28/2013 20:05	2/28/2013 20:17	49.0	9.9	$0
Chesterfield 5	D1	CHST-05-CS-FDR-1A Wiper Failure	0.23	0.01	3/3/2013 6:38	3/3/2013 6:52	14.0	3.3	$0
Chesterfield 5	D1	5B feeder lost due to rock in feeder. NIC	0.25	0.04	3/16/2013 9:26	3/16/2013 9:41	49.0	12.2	$0
Chesterfield 5	U1	Unit tripped during monthly Boiler Safety System testing. NIC	15.52	15.52	3/19/2013 14:03	3/20/2013 5:34	329.0	5,105.1	$0
Chesterfield 5	D4	Derate to perform biweekly turbine valve checks. NIC	0.45	0.07	3/30/2013 2:00	3/30/2013 2:27	49.0	22.0	$0
Chesterfield 5	MO	MO to assist in relay panel removal of U6 NSST.	16.10	16.10	4/3/2013 7:54	4/4/2013 0:00	329.0	5,296.9	$0
Chesterfield 5	PO	Planned outage to replace layer of catalyst in SCR.	671.97	671.97	4/13/2013 0:01	5/10/2013 23:59	329.0	221,077.1	$4,820
Chesterfield 5	PE	Extension to finalize SCR replacement work and vacuuming ash removal from the SCR compartments.	155.18	155.18	5/10/2013 23:59	5/17/2013 11:10	335.0	51,986.3	$0
Chesterfield 5	D1	FD fan limited	18.90	0.56	6/30/2013 11:06	7/1/2013 6:00	10.0	188.9	$0
Chesterfield 5	D1	FD Fan Limited	20.67	0.93	7/28/2013 14:00	7/29/2013 10:40	15.0	309.9	$0
Chesterfield 5	D1	5D Coal Mill High Lower Bearing Temperatures (See Extended Description): W.O.: 67671431	332.75	44.70	8/4/2013 11:45	8/18/2013 8:30	45.0	14,973.8	$335
Chesterfield 5	D1	FD Fan Limited	62.00	2.78	9/10/2013 9:00	9/12/2013 23:00	15.0	930.0	$0
Chesterfield 5	PO	Economizer Tube Surface Area Removal	1,388.48	1,388.48	9/21/2013 0:01	11/17/2013 19:30	335.0	465,141.8	$6,134
Chesterfield 5	MO	Steam Turbine Balance Shots	52.82	52.82	11/22/2013 0:44	11/24/2013 5:33	336.0	17,746.5	$0
Chesterfield 5	U1	A" furnace. Tube leaks at elevations 69' and 85' on corner #1 (W.O. #: 67714884)"	121.73	121.73	12/3/2013 0:35	12/8/2013 2:19	336.0	40,902.3	$56
Chesterfield 5	MO	Boiler Tube Leaks (W.O.: 67727181) See Extended Description	22.57	22.57	12/31/2013 1:26	1/1/2014 23:59	336.0	7,582.5	$16
Chesterfield 6	D1	SCR problems.	0.95	0.16	1/21/2013 9:55	1/21/2013 10:52	116.0	109.9	$0
Chesterfield 6	D1	Lost coal on 6F feeder. NIC	0.18	0.02	1/25/2013 4:38	1/25/2013 4:49	80.0	14.7	$0

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Chesterfield 6	D1	Generator leads cooling fan broken belt. Replace belt Order #67592629	18.37	6.03	1/26/2013 20:22	1/27/2013 14:44	220.0	4,040.8	$5
Chesterfield 6	D1	Lost coal 6F feeder chute plugging. NIC	1.15	0.14	1/30/2013 12:12	1/30/2013 13:21	80.0	91.8	$0
Chesterfield 6	D1	Lost coal to F feeder. NIC	0.12	0.02	2/1/2013 16:15	2/1/2013 16:22	87.0	9.9	$0
Chesterfield 6	D1	Lost coal to F feeder. NIC	0.08	0.01	2/1/2013 16:25	2/1/2013 16:30	87.0	7.2	$0
Chesterfield 6	D4	Load dropped to backwash circ water pump 1C. NIC	1.60	0.14	2/1/2013 23:03	2/2/2013 0:39	57.0	91.3	$0
Chesterfield 6	D1	Lost F feeder due to loose conveyor belt. Order 67595776	2.55	0.34	2/2/2013 9:49	2/2/2013 12:22	87.0	222.1	$0
Chesterfield 6	D1	Crack in the cold air duct feeding the 6F mill. Order 67595777	5.27	0.70	2/3/2013 17:40	2/3/2013 22:56	87.0	457.9	$7
Chesterfield 6	D1	Coal chute plugging in 6F feeder. NIC	0.25	0.03	2/4/2013 18:27	2/4/2013 18:42	87.0	21.7	$0
Chesterfield 6	D1	Lost coal on F feeder. NIC	0.18	0.02	2/6/2013 19:40	2/6/2013 19:51	87.0	15.8	$0
Chesterfield 6	D4	Stack testing RATA. NIC	12.43	4.30	2/13/2013 8:37	2/13/2013 21:03	227.0	2,822.5	$0
Chesterfield 6	D4	Unit derate due to stack testing RATA. NIC	14.65	5.06	2/14/2013 6:44	2/14/2013 21:23	227.0	3,325.7	$0
Chesterfield 6	D1	Lost coal on F feeder. NIC	0.58	0.08	2/16/2013 9:20	2/16/2013 9:55	87.0	50.6	$0
Chesterfield 6	D1	Lost coal supply on F feeder. NIC	0.15	0.02	2/16/2013 13:21	2/16/2013 13:30	87.0	13.1	$0
Chesterfield 6	D1	Lost coal on B feeder. NIC	0.60	0.08	2/16/2013 17:52	2/16/2013 18:28	87.0	51.9	$0
Chesterfield 6	D1	Lost coal on F feeder. NIC	0.15	0.04	2/16/2013 18:01	2/16/2013 18:10	170.0	25.6	$0
Chesterfield 6	D1	Lost coal to C feeder. Belt trouble. Order 67601299	6.20	0.82	2/17/2013 11:39	2/17/2013 17:51	87.0	539.4	$1
Chesterfield 6	D1	Lost F feeder due to no coal flow. NIC	0.20	0.03	2/18/2013 7:10	2/18/2013 7:22	87.0	17.1	$0
Chesterfield 6	D1	Lost coal on F feeder. NIC	0.25	0.03	2/18/2013 11:17	2/18/2013 11:32	87.0	21.7	$0
Chesterfield 6	D4	Pyrite sweeper arm broken in F mill. Order #67603847	4.95	0.66	2/21/2013 23:23	2/22/2013 4:20	87.0	430.3	$1
Chesterfield 6	D1	C feeder drag conveyer drive coupling failed. Order 67606125	10.18	1.35	2/27/2013 10:19	2/27/2013 20:30	87.0	885.6	$1
Chesterfield 6	D1	Lost C feeder. NIC	0.30	0.04	2/28/2013 20:27	2/28/2013 20:45	87.0	26.3	$0
Chesterfield 6	D1	Lost C feeder. NIC	0.47	0.06	3/1/2013 6:37	3/1/2013 7:05	87.0	40.7	$0
Chesterfield 6	D1	Lost F feeder. NIC	0.20	0.03	3/1/2013 19:12	3/1/2013 19:24	87.0	17.1	$0
Chesterfield 6	D4	Unit derated for biweekly valve testing. NIC	0.67	0.16	3/1/2013 23:43	3/2/2013 0:23	157.0	104.5	$0
Chesterfield 6	D4	Repair leak in PA hot air duct. Order 67607246	7.83	0.80	3/2/2013 13:04	3/2/2013 20:54	67.0	524.9	$1
Chesterfield 6	D1	Lost C feeder during normal operations. NIC	0.13	0.02	3/7/2013 14:50	3/7/2013 14:58	87.0	11.8	$0
Chesterfield 6	D1	Lost coal on C feeder. NIC	0.23	0.03	3/7/2013 22:22	3/7/2013 22:36	87.0	20.4	$0
Chesterfield 6	D1	Lost F feeder. NIC	0.17	0.02	3/8/2013 11:36	3/8/2013 11:46	87.0	14.5	$0
Chesterfield 6	D1	Lost F feeder. NIC	0.18	0.02	3/8/2013 16:01	3/8/2013 16:12	87.0	15.8	$0
Chesterfield 6	D1	Lost F feeder. NIC	0.25	0.03	3/9/2013 17:48	3/9/2013 18:03	87.0	21.7	$0
Chesterfield 6	D1	Lost C feeder. NIC	0.25	0.03	3/10/2013 22:05	3/10/2013 22:20	87.0	21.7	$0
Chesterfield 6	D1	Lost coal on F feeder. NIC	0.20	0.03	3/11/2013 10:03	3/11/2013 10:15	87.0	17.1	$0
Chesterfield 6	D1	Lost F feeder. NIC	0.12	0.02	3/11/2013 10:31	3/11/2013 10:38	87.0	9.9	$0
Chesterfield 6	D1	Lost coal to F feeder. NIC	0.15	0.02	3/13/2013 8:35	3/13/2013 8:44	87.0	13.1	$0
Chesterfield 6	D1	Lost coal to F feeder. NIC	0.13	0.02	3/13/2013 13:17	3/13/2013 13:25	87.0	11.8	$0
Chesterfield 6	D4	Derate for biweekly turbine valve checks. NIC	0.87	0.34	3/16/2013 1:08	3/16/2013 2:00	257.0	222.7	$0
Chesterfield 6	D1	Lost coal on F feeder. NIC	0.22	0.03	3/18/2013 19:43	3/18/2013 19:56	87.0	19.1	$0
Chesterfield 6	D1	Lost coal on F feeder. NIC	0.13	0.02	3/18/2013 20:51	3/18/2013 20:59	87.0	11.8	$0
Chesterfield 6	D1	Lost 6C feeder. NIC	0.17	0.02	3/19/2013 19:10	3/19/2013 19:20	87.0	14.5	$0
Chesterfield 6	D1	Lost C feeder during normal operation. NIC	0.37	0.05	3/19/2013 19:43	3/19/2013 20:05	87.0	32.2	$0
Chesterfield 6	D1	Lost B feeder during normal operation. NIC	0.55	0.07	3/19/2013 21:07	3/19/2013 21:40	87.0	48.0	$0
Chesterfield 6	D1	Lost 6C feeder. NIC	0.47	0.06	3/20/2013 8:50	3/20/2013 9:18	87.0	40.7	$0
Chesterfield 6	D1	Lost 6C feeder. NIC	0.18	0.02	3/20/2013 10:40	3/20/2013 10:51	87.0	15.8	$0
Chesterfield 6	D1	Derate to replace torn feeder belt on 6D feeder. Order # 67617494	3.08	0.41	3/26/2013 9:13	3/26/2013 12:18	87.0	268.1	$3
Chesterfield 6	D1	Replace damaged drive bearing cover on 6D feeder. Order 67617600	14.83	1.06	3/26/2013 14:00	3/27/2013 4:50	47.0	697.1	$12
Chesterfield 6	D4	Unit derate to perform pulverizer ring to roll adjustments prior to shutdown D mill. Order # 67605616	0.90	0.12	3/28/2013 21:20	3/28/2013 22:14	87.0	78.2	$0
Chesterfield 6	D4	Unit derate to perform pulverizer ring to roll adjustments prior to shutdown E mill. Order # 67605616	0.87	0.12	3/28/2013 22:30	3/28/2013 23:22	87.0	75.6	$0
Chesterfield 6	D4	Unit derate to perform pulverizer ring to roll adjustments prior to shutdown F mill. Order # 67605616	0.22	0.03	3/28/2013 23:44	3/28/2013 23:57	87.0	19.1	$0
Chesterfield 6	PO	Replacing station service transformers. Order #67585910	671.65	671.65	3/30/2013 0:15	4/26/2013 23:54	657.0	441,274.1	$1,577
Chesterfield 6	D4	Derate scheduled for U6 B" BCWP Motor Alignment"	45.98	3.95	4/30/2013 3:00	5/2/2013 0:59	57.0	2,596.5	$0
Chesterfield 6	MO	MO to align B" Boiler Circ Pump. Order 67630202"	39.73	39.73	5/2/2013 0:59	5/3/2013 16:43	670.0	26,621.1	$0
Chesterfield 6	D4	Derate to inspect the generator leads cooling system.	1.87	0.75	5/14/2013 0:05	5/14/2013 1:57	270.0	503.8	$0
Chesterfield 6	U1	Unit trip due to Power Load Imbalance fault. Order	46.75	46.75	5/24/2013 23:16	5/26/2013 22:01	670.0	31,322.5	$0
Chesterfield 6	D1	Lost coal on 6C feeder. NIC	0.18	0.03	5/28/2013 9:04	5/28/2013 9:15	100.0	18.1	$0
Chesterfield 6	D1	Lost coal flow to 6C feeder. NIC	0.43	0.07	5/28/2013 11:15	5/28/2013 11:41	100.0	43.6	$0
Chesterfield 6	D4	Derate for biweekly turbine valve checks. NIC	0.58	0.24	6/8/2013 0:02	6/8/2013 0:37	270.0	157.5	$0
Chesterfield 6	D4	Condenser waterbox cleaning. NIC	4.05	1.63	6/16/2013 1:03	6/16/2013 5:06	270.0	1,093.4	$0
Chesterfield 6	D1	Lost coal feed to B" feeder. NIC"	0.73	0.11	6/30/2013 20:02	6/30/2013 20:46	100.0	73.0	$0

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PE = Extension of Planned Outage
D# = Derates
DM = Maintenance Derate Extension

2013 Power Generation Outage Report
(Fossil & Hydro)

Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2013 Dates Start	2013 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Chesterfield 6	D4	Derate for biweekly turbine valve checks. NIC	1.07	0.43	7/6/2013 0:10	7/6/2013 1:14	270.0	288.1	$0
Chesterfield 6	D1	Lost coal flow to 'F' feeder. NIC	0.27	0.04	7/6/2013 15:59	7/6/2013 16:15	100.0	26.8	$0
Chesterfield 6	D1	Derate taken to repair coolant leak of the A" ID VFD. Order #67664984"	7.55	0.68	7/18/2013 7:40	7/18/2013 15:13	60.0	452.9	$3
Chesterfield 6	D4	Derate for biweekly turbine valve checks. NIC	1.23	0.22	8/9/2013 23:58	8/10/2013 1:12	120.0	148.1	$0
Chesterfield 6	D1	Derate to repair BCW injection pump seal. Order 67674486	1.97	0.36	8/11/2013 16:30	8/11/2013 18:28	122.0	239.9	$13
Chesterfield 6	D1	Lost B" side FD fan due to ground fault trip. Order 67679134"	176.37	60.54	8/23/2013 16:18	8/31/2013 0:40	230.0	40,564.5	$280
Chesterfield 6	MO	MO to replace circ pump discharge valve. Order#67632353	292.63	292.63	9/3/2013 0:00	9/15/2013 4:38	670.0	196,064.1	$151
Chesterfield 6	D1	Derate to replace roller #2 in E pulverizer due to bad bearing. Order#67692733	30.05	4.93	9/23/2013 12:30	9/24/2013 18:33	110.0	3,305.8	$25
Chesterfield 6	D4	Derate for biweekly turbine valve checks. NIC	1.97	0.88	9/28/2013 0:02	9/28/2013 2:00	300.0	590.3	$0
Chesterfield 6	D1	A" feeder trip due to feeder belt coupling .Order 67696878"	0.90	0.13	10/3/2013 18:55	10/3/2013 19:49	100.0	89.8	$0
Chesterfield 6	D4	Derate to adjust feeder belt tension. Order #67707562	4.67	0.77	10/10/2013 6:15	10/10/2013 10:55	110.0	513.2	$0
Chesterfield 6	D4	Derate for biweekly turbine valve checks. NIC	1.55	0.63	10/12/2013 0:04	10/12/2013 1:37	270.0	418.8	$0
Chesterfield 6	D1	Unit derate due to inadvertent operation of breaker during testing. NIC	2.58	0.93	10/15/2013 11:42	10/15/2013 14:17	240.0	619.8	$0
Chesterfield 6	D1	6F mill taken out of service due to locked up #1 roller. Order 67704033	11.82	0.53	10/24/2013 6:28	10/24/2013 18:17	30.0	354.4	$4
Chesterfield 6	D4	Derate for biweekly turbine valve checks. NIC	0.87	0.35	10/26/2013 0:06	10/26/2013 0:58	270.0	233.8	$0
Chesterfield 6	D1	Lost 6E feeder. NIC	0.53	0.09	10/26/2013 6:44	10/26/2013 7:16	110.0	59.0	$0
Chesterfield 6	D1	Unit had to take derate to backwash 6C traveling screen. NIC	0.63	0.16	10/30/2013 17:30	10/30/2013 18:08	170.0	107.9	$0
Chesterfield 6	D4	Derate for biweekly turbine valve check. NIC	1.08	0.44	11/8/2013 23:49	11/9/2013 0:54	270.0	292.8	$0
Chesterfield 6	D4	Derate to clean condenser waterboxes. NIC	4.97	2.00	11/12/2013 23:13	11/13/2013 4:11	270.0	1,340.7	$0
Chesterfield 6	D4	Derate for turbine valve checks. NIC	0.78	0.32	11/23/2013 1:11	11/23/2013 1:58	270.0	211.7	$0
Chesterfield 6	D4	Derate for biweekly turbine valve checks. NIC	0.27	0.08	12/7/2013 0:29	12/7/2013 0:45	220.0	59.0	$0
Chesterfield 6	D1	Lost coal to C feeder. NIC	0.65	0.11	12/13/2013 23:15	12/13/2013 23:54	110.0	71.7	$0
Chesterfield 6	D1	Lost coal to C feeder. NIC	0.73	0.12	12/14/2013 3:48	12/14/2013 4:32	110.0	80.4	$0
Chesterfield 6	D4	Derate for biweekly turbine valve checks. NIC	0.55	0.22	12/21/2013 0:13	12/21/2013 0:46	270.0	148.7	$0
Chesterfield 6	D1	Lost communication with C ID fan. NIC	1.87	0.15	12/25/2013 6:00	12/25/2013 7:52	55.0	102.5	$0
Chesterfield 6	D1	Lost coal on C feeder. NIC	0.27	0.04	12/26/2013 11:02	12/26/2013 11:18	110.0	29.5	$0
Chesterfield 6	D1	Lost coal on C feeder. NIC	0.15	0.03	12/28/2013 9:16	12/28/2013 9:25	110.0	16.8	$0
Chesterfield 7	D4	Derate for biweekly steam turbine valve checks. NIC	0.53	0.11	1/6/2013 0:20	1/6/2013 0:52	39.9	21.3	$0
Chesterfield 7	MO	Outage for offline compressor wash. Order #67585348	51.73	51.73	1/12/2013 0:35	1/14/2013 4:19	196.9	10,186.2	$4
Chesterfield 7	D1	Load dropped due to loss of fuel gas pressure due to gas supplier equipment problems. NIC	3.40	0.81	1/22/2013 12:45	1/22/2013 16:09	46.9	159.5	$0
Chesterfield 7	D1	Load dropped due to fuel gas supply due to supplier problems. NIC	6.43	1.04	1/24/2013 22:45	1/25/2013 5:11	31.9	205.2	$0
Chesterfield 7	D1	Load derate due to low fuel gas pressure due to gas supplier problem. NIC	6.95	3.42	1/25/2013 10:00	1/25/2013 16:57	96.9	673.4	$0
Chesterfield 7	D4	Derate to perform biweekly steam turbine valve checks. NIC	1.57	0.32	1/26/2013 0:05	1/26/2013 1:39	39.9	62.4	$0
Chesterfield 7	D1	Unit dropped load due to fuel gas supply pressure. NIC	5.55	0.90	2/2/2013 10:57	2/2/2013 16:30	31.9	177.0	$0
Chesterfield 7	D4	Load drop to perform biweekly steam turbine valve checks. NIC	1.03	0.21	2/10/2013 3:23	2/10/2013 4:25	39.9	41.2	$0
Chesterfield 7	D4	Derate for biweekly steam turbine valve checks. NIC	1.87	0.38	2/24/2013 2:02	2/24/2013 3:54	39.9	74.4	$0
Chesterfield 7	U1	Unit trip during liquid fuel transfer. NIC	6.97	6.97	3/16/2013 2:03	3/16/2013 9:01	196.9	1,371.8	$0
Chesterfield 7	D4	Derate to repair LP drup pegging steam pressure control valve. Order 67616257	3.00	0.18	3/25/2013 11:40	3/25/2013 14:40	11.9	35.6	$3
Chesterfield 7	D4	Unit derate for biweekly steam turbine valve checks. NIC	1.38	0.28	3/31/2013 0:07	3/31/2013 1:30	39.9	55.1	$0
Chesterfield 7	MO	Unit taken offline to repair condensate line to bearing lube system. Order #67623315	31.08	31.08	4/12/2013 1:09	4/13/2013 8:14	196.9	6,120.2	$9
Chesterfield 7	D1	Unit had to drop load due to unstable IP feedwater flow. NIC	0.35	0.04	4/14/2013 19:35	4/14/2013 19:56	19.9	6.9	$0
Chesterfield 7	D4	Swap HP feedwater pumps. NIC	0.85	0.33	4/20/2013 0:55	4/20/2013 1:46	76.9	65.4	$0
Chesterfield 7	MO	MO to perform compressor wash.	47.55	47.55	5/12/2013 0:27	5/14/2013 0:00	190.7	9,067.8	$4
Chesterfield 7	U1	Unit could not start due to high P2 pressure between gas stop/ratio and gas control valves.	3.17	3.17	5/14/2013 0:00	5/14/2013 3:10	190.7	603.9	$0
Chesterfield 7	D1	Unit derate due to steam injection problems. Order 67636054	4.22	3.29	5/14/2013 12:15	5/14/2013 16:28	148.7	627.0	$2
Chesterfield 7	U1	Unit offline to replace faulty stop/ratio valve control serve. Order 67636511	16.78	16.78	5/14/2013 16:28	5/15/2013 9:15	190.7	3,200.5	$2
Chesterfield 7	MO	Unit offline for semi-annual borescope inspection. Order 67598151	139.75	139.75	5/20/2013 0:02	5/25/2013 19:47	190.7	26,650.3	$58
Chesterfield 7	U1	Unit could not start due to a ground fault in the switchyard. NIC	3.28	3.28	5/28/2013 7:00	5/28/2013 10:17	190.7	626.1	$0
Chesterfield 7	U1	Unit taken offline due to CSA fans not being in Auto.	0.85	0.85	5/28/2013 10:25	5/28/2013 11:16	190.7	162.1	$0
Chesterfield 7	U1	Unit taken offline to check operation of MS-PCV-090 and MS-MOV-055. Order	1.20	1.20	5/28/2013 12:05	5/28/2013 13:17	190.7	228.8	$0
Chesterfield 7	U1	Unit trip due to excessive exhaust spread temperature. NIC	2.25	2.25	5/28/2013 15:14	5/28/2013 17:29	190.7	429.1	$0
Chesterfield 7	D1	Failed Summer 2013 Capacity Test	4,393.00	16.44	6/1/2013 0:00	12/1/2013 0:00	0.8	3,135.7	$0
Chesterfield 7	D4	Derate to backwash condenser waterboxes. NIC	1.23	0.58	6/16/2013 1:25	6/16/2013 2:39	89.9	110.8	$0
Chesterfield 7	D4	Derate for biweekly turbine valve checks. NIC	1.45	0.26	6/30/2013 0:01	6/30/2013 1:28	33.9	49.2	$0
Chesterfield 7	U1	Unit tripped due to failed IGV positioner hydraulic fitting.	40.63	40.63	7/3/2013 13:52	7/5/2013 6:30	190.7	7,748.7	$0
Chesterfield 7	D1	Derate due to steam injection problems. NIC	1.55	1.06	7/21/2013 11:47	7/21/2013 13:20	129.9	201.4	$0
Chesterfield 7	D4	Derate to backwash the condenser. NIC	1.10	0.52	7/23/2013 2:58	7/23/2013 4:04	89.9	99.0	$0
Chesterfield 7	D4	Derate to perform biweekly turbine valve checks. NIC	0.48	0.08	7/28/2013 0:01	7/28/2013 0:30	32.9	15.8	$0

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2013 Power Generation Outage Report
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Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2013 Dates Start	2013 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Chesterfield 7	D1	Derate due to problems maintaining steam injection in service and load swinging. Order#67667026	6.98	3.29	7/28/2013 11:02	7/28/2013 18:01	89.9	627.8	$6
Chesterfield 7	U1	Unit trip due to gas valve LVDT issues. Order 67667026	4.28	4.28	7/28/2013 18:01	7/28/2013 22:18	190.7	816.8	$0
Chesterfield 7	D4	Derate for condenser backwash. NIC	1.23	0.58	8/4/2013 2:04	8/4/2013 3:18	89.9	110.8	$0
Chesterfield 7	D4	Derate for biweekly steam turbine valve checks. NIC	1.40	0.24	8/11/2013 0:03	8/11/2013 1:27	32.9	46.1	$0
Chesterfield 7	D4	Derate for condenser backwash. NIC	1.17	0.55	8/11/2013 1:27	8/11/2013 2:37	89.9	104.9	$0
Chesterfield 7	U1	IGV Actuator Hydraulic Line Failure - Inlet Guide Vane Control Fault Trip. Reference SAP order 67675232.	58.45	58.45	8/12/2013 16:49	8/15/2013 3:16	190.7	11,146.4	$12
Chesterfield 7	D4	Derate for biweekly turbine valve checks. NIC	1.67	0.29	8/25/2013 0:09	8/25/2013 1:49	32.9	54.9	$0
Chesterfield 7	D4	Derate for condenser backwash. NIC	2.18	1.03	8/25/2013 1:49	8/25/2013 4:00	89.9	196.2	$0
Chesterfield 7	U1	Unit tripped due to low drum level when HP feedwater pump tripped. NIC	5.55	5.55	8/30/2013 8:07	8/30/2013 13:40	190.7	1,058.4	$0
Chesterfield 7	D4	Derate to backwash condenser. NIC	1.38	0.65	9/1/2013 2:12	9/1/2013 3:35	89.9	124.3	$0
Chesterfield 7	D4	Derate to backwash condenser. NIC	1.80	0.85	9/5/2013 3:00	9/5/2013 4:48	89.9	161.9	$0
Chesterfield 7	MO	MO to repair the IGV trip oil flex line. Order 67678358	17.32	17.32	9/6/2013 0:41	9/6/2013 18:00	190.7	3,302.4	$0
Chesterfield 7	D4	Derate to backwash condenser. NIC	1.07	0.50	9/17/2013 1:06	9/17/2013 2:10	89.9	95.9	$0
Chesterfield 7	D4	Derate for biweekly steam turbine valve checks. NIC	0.45	0.08	9/22/2013 0:05	9/22/2013 0:32	32.9	14.9	$0
Chesterfield 7	D4	Derate to backwash main steam condenser. NIC	1.27	0.60	9/29/2013 2:10	9/29/2013 3:26	89.9	113.8	$0
Chesterfield 7	D4	Derate for biweekly turbine valve checks. NIC	1.85	0.32	10/6/2013 0:03	10/6/2013 1:54	32.9	60.8	$0
Chesterfield 7	D4	Derate for condenser backwash. NIC	1.07	0.50	10/6/2013 1:54	10/6/2013 2:58	89.9	95.9	$0
Chesterfield 7	MO	Main Steam Control Valve Repair and Gas Turbine Compressor Wash Order#67697719	45.95	45.95	10/10/2013 0:08	10/11/2013 22:05	190.7	8,762.7	$22
Chesterfield 7	MO	MO for semi-annual borescope outage. Order 67688739	147.40	147.40	10/20/2013 0:28	10/26/2013 3:52	190.7	28,109.2	$68
Chesterfield 7	SF	Unit failed to start due to P2" pressure indication too high. NIC"	4.80	4.80	10/26/2013 3:52	10/26/2013 8:40	190.7	915.4	$0
Chesterfield 7	SF	Unit start up failure due to excitation trip. NIC	2.63	2.63	10/26/2013 8:40	10/26/2013 11:18	190.7	502.1	$0
Chesterfield 7	D4	Unit derate to perform condenser backwash. NIC	2.17	1.02	11/3/2013 0:00	11/3/2013 1:10	89.9	194.7	$0
Chesterfield 7	D4	Derate to perform biweekly turbine valve checks. NIC	0.43	0.08	11/10/2013 0:03	11/10/2013 0:29	32.9	14.3	$0
Chesterfield 7	MO	Unit outage to restore liquid fuel capability. Order 67706519	139.55	139.55	11/18/2013 0:32	11/23/2013 20:05	190.7	26,612.2	$20
Chesterfield 7	SF	Unit failed to start due to liquid fuel leak discovered during testing. Order 67706519	6.78	6.78	11/23/2013 20:05	11/24/2013 2:52	190.7	1,293.5	$0
Chesterfield 7	D4	Backwash condenser.	4.03	1.92	12/8/2013 0:00	12/8/2013 4:02	90.7	365.8	$0
Chesterfield 7	D1	Unit derated due to loss of steam turbine. NIC	1.73	1.64	12/15/2013 2:35	12/15/2013 4:19	180.7	313.1	$0
Chesterfield 8	D4	Derate to backwash condenser. NIC	18.78	9.30	1/6/2013 1:13	1/6/2013 20:00	98.0	1,840.8	$0
Chesterfield 8	D4	Derate for biweekly steam turbine valve testing. NIC	0.27	0.08	1/13/2013 0:55	1/13/2013 1:11	58.0	15.4	$0
Chesterfield 8	D4	Biweekly turbine valve checks. NIC	2.07	0.43	1/27/2013 0:02	1/27/2013 2:06	41.0	84.7	$0
Chesterfield 8	D4	Unit came down on load to swap HP feedwater pumps. NIC	4.93	1.94	1/27/2013 19:51	1/28/2013 0:47	78.0	384.7	$0
Chesterfield 8	D4	Derate to backwash condenser. NIC	2.03	1.01	2/2/2013 2:08	2/2/2013 4:10	98.0	199.2	$0
Chesterfield 8	D4	Derate for biweekly steam turbine valve checks. NIC	1.75	0.36	2/10/2013 0:20	2/10/2013 2:05	41.0	71.7	$0
Chesterfield 8	D4	Derate to conduct biweekly steam turbine valve checks. NIC	1.32	0.27	2/24/2013 0:06	2/24/2013 1:25	41.0	54.1	$0
Chesterfield 8	D4	Derate to backwash condenser. NIC	1.78	0.88	3/16/2013 3:15	3/16/2013 5:02	98.0	174.8	$0
Chesterfield 8	D4	Load reduced for turbine valve checks. NIC	1.80	0.44	3/24/2013 3:04	3/24/2013 4:52	48.0	86.3	$0
Chesterfield 8	D4	Biweekly turbine valve check. NIC	1.60	0.33	4/7/2013 0:10	4/7/2013 1:46	41.0	65.5	$0
Chesterfield 8	D4	Condenser backwash. NIC	0.88	0.44	4/13/2013 1:12	4/13/2013 2:05	98.0	86.5	$0
Chesterfield 8	D4	Derate to switch feedwater pumps. NIC	1.02	0.40	4/14/2013 1:15	4/14/2013 2:16	78.0	79.4	$0
Chesterfield 8	U1	Unit tripped due to inlet guide vane control servo failure. Order #67626324	16.72	16.72	4/17/2013 21:29	4/18/2013 14:12	198.0	3,310.0	$11
Chesterfield 8	MO	Unit 8 Compressor Wash	53.88	53.88	4/27/2013 0:54	4/29/2013 6:47	198.0	10,668.8	$4
Chesterfield 8	D4	Derate to backwash the condenser. NIC	0.83	0.41	5/4/2013 1:08	5/4/2013 1:58	98.0	81.6	$0
Chesterfield 8	MO	MO for biannual boroscope inspection. Order 67598157	150.72	150.72	5/6/2013 0:28	5/12/2013 7:11	198.0	29,842.0	$67
Chesterfield 8	SF	Unit failed to start due to fuel gas control issues.	1.00	1.00	5/12/2013 7:11	5/12/2013 8:11	198.0	198.0	$8
Chesterfield 8	SF	Unit failed to start due to fuel gas control issues.	6.55	6.55	5/12/2013 8:11	5/12/2013 14:44	198.0	1,296.9	$0
Chesterfield 8	U1	Unit was taken offline due to a leak from an HRSG access door. Order 67636008	24.95	24.95	5/12/2013 23:03	5/14/2013 0:00	198.0	4,940.1	$17
Chesterfield 8	MO	MO to repair misc damage done by HRSG leak. Order 67636008	25.58	25.58	5/14/2013 0:00	5/15/2013 1:35	198.0	5,065.4	$0
Chesterfield 8	D4	Derate to backwash condenser. NIC	1.28	0.64	6/4/2013 0:27	6/4/2013 1:44	98.0	125.7	$0
Chesterfield 8	D4	Derate to backwash condenser. NIC	1.38	0.69	6/15/2013 0:07	6/15/2013 1:30	98.0	135.6	$0
Chesterfield 8	U1	Unit trip due to operation of Station Service Xfmr Low Lead Grnd Diff relay. Order 67649371	32.77	32.77	6/15/2013 9:29	6/16/2013 18:15	198.0	6,487.9	$2
Chesterfield 8	D4	Derate to backwash condenser. NIC	0.92	0.45	6/22/2013 1:05	6/22/2013 2:00	98.0	89.9	$0
Chesterfield 8	D4	Derate for biweekly turbine valve checks. NIC	1.00	0.21	6/30/2013 1:50	6/30/2013 2:50	42.0	42.0	$0
Chesterfield 8	D4	Derate to backwash condenser. NIC	1.32	0.65	7/13/2013 1:02	7/13/2013 2:21	98.0	129.1	$0
Chesterfield 8	D4	Derate for biweekly turbine valve checks. NIC	1.42	0.29	7/14/2013 0:13	7/14/2013 1:38	41.0	58.0	$0
Chesterfield 8	D1	Derate to reset steam injection master reset. NIC	1.03	0.81	7/21/2013 12:17	7/21/2013 13:19	156.0	161.2	$0
Chesterfield 8	D4	Derate to backwash condenser. NIC	1.13	0.56	7/23/2013 0:44	7/23/2013 1:52	98.0	111.1	$0
Chesterfield 8	D4	Derate to backwash condenser. NIC	0.93	0.46	7/27/2013 0:40	7/27/2013 1:36	98.0	91.5	$0
Chesterfield 8	D4	Derate for condenser backwash. NIC	0.97	0.48	8/3/2013 1:12	8/3/2013 2:10	98.0	94.6	$0

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2013 Power Generation Outage Report
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Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2013 Dates Start	2013 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Chesterfield 8	D4	Derate for condenser backwash. NIC	0.63	0.31	8/10/2013 1:02	8/10/2013 1:40	98.0	62.0	$0
Chesterfield 8	D4	Derate for condenser backwash. NIC	0.95	0.47	8/17/2013 0:30	8/17/2013 1:27	98.0	93.1	$0
Chesterfield 8	D4	Derate for biweekly turbine valve checks. NIC	0.25	0.05	8/17/2013 23:55	8/18/2013 0:10	41.0	10.3	$0
Chesterfield 8	D4	Derate for condenser backwash. NIC	0.25	0.12	8/24/2013 1:25	8/24/2013 1:40	98.0	24.6	$0
Chesterfield 8	D4	Derate for biweekly steam turbine valve checks. NIC	1.73	0.36	9/1/2013 0:11	9/1/2013 1:55	41.0	71.1	$0
Chesterfield 8	D4	Derate to backwash condenser. NIC	2.35	1.16	9/5/2013 2:45	9/5/2013 5:06	98.0	230.3	$0
Chesterfield 8	D4	Derate to backwash condenser, NIC	1.35	0.67	9/7/2013 1:10	9/7/2013 2:31	98.0	132.3	$0
Chesterfield 8	D4	Derate to backwash condenser. NIC	1.52	0.75	9/11/2013 0:16	9/11/2013 1:47	98.0	148.7	$0
Chesterfield 8	D4	Derate to backwash condenser. NIC	1.33	0.66	9/12/2013 0:15	9/12/2013 1:35	98.0	130.7	$0
Chesterfield 8	D4	Derate to backwash condenser. NIC	1.65	0.82	9/13/2013 0:07	9/13/2013 1:46	98.0	161.8	$0
Chesterfield 8	D4	Derate to backwash condenser. NIC	1.55	0.77	9/14/2013 2:12	9/14/2013 3:45	98.0	151.9	$0
Chesterfield 8	D4	Derate for biweekly steam turbine valve checks. NIC	0.27	0.06	9/15/2013 0:09	9/15/2013 0:25	41.0	10.9	$0
Chesterfield 8	D4	Derate to backwash condenser. NIC	0.88	0.44	9/21/2013 1:08	9/21/2013 2:01	98.0	86.5	$0
Chesterfield 8	D4	Derate to backwash condenser. NIC	0.82	0.40	9/28/2013 1:06	9/28/2013 1:55	98.0	80.0	$0
Chesterfield 8	D4	Derate to perform biweekly steam turbine valve checks. NIC	1.50	0.31	9/29/2013 0:18	9/29/2013 1:48	41.0	61.6	$0
Chesterfield 8	D4	Derate to backwash condenser. NIC	1.38	0.69	10/5/2013 0:38	10/5/2013 2:01	98.0	135.6	$0
Chesterfield 8	D4	Derate to backwash condenser. NIC	0.78	0.39	10/12/2013 1:10	10/12/2013 1:57	98.0	76.8	$0
Chesterfield 8	D4	Derate for condenser backwash. NIC	1.42	0.70	10/19/2013 1:10	10/19/2013 2:35	98.0	138.8	$0
Chesterfield 8	D4	Derate to backwash condenser. NIC	0.78	0.39	10/26/2013 0:53	10/26/2013 1:40	98.0	76.8	$0
Chesterfield 8	MO	Unit MO for compressor wash. Order 67690522	37.98	37.98	11/2/2013 0:15	11/3/2013 13:14	198.0	7,520.6	$4
Chesterfield 8	MO	Unit MO to perform semi annual borescope inspection. Order 67688740	147.08	147.08	11/10/2013 0:51	11/16/2013 3:56	198.0	29,122.4	$65
Chesterfield 8	SF	Unit would not start due to issues with fuel gas purge system. Order 67712849	26.32	26.32	11/16/2013 3:56	11/17/2013 6:15	198.0	5,210.8	$7
Chesterfield 8	U1	Unit had to come off due to voltage regulation issue. Order	1.88	1.88	11/18/2013 11:48	11/18/2013 13:41	198.0	372.8	$0
Chesterfield 8	D4	Condenser backwash derate. NIC	1.30	0.64	11/29/2013 2:12	11/29/2013 3:30	98.0	127.3	$0
Chesterfield 8	D4	Derate for biweekly turbine valve checks. NIC	1.85	0.39	12/1/2013 0:05	12/1/2013 1:56	42.0	77.6	$0
Chesterfield 8	D4	Backwash condenser. NIC	0.77	0.38	12/14/2013 0:33	12/14/2013 1:19	98.0	75.0	$0
Chesterfield 8	D4	Backwash Condenser. NIC	1.37	0.68	12/21/2013 2:02	12/21/2013 3:24	98.0	133.8	$0
Chesterfield 8	D4	Backwash Condenser. NIC	1.18	0.59	12/28/2013 1:58	12/28/2013 3:09	98.0	116.0	$0
Clover 1	D1	Curtailment due to A" Feeder and Mill trip on plugged chute."	0.42	0.15	1/19/2013 13:25	1/19/2013 13:50	153.0	63.8	$0
Clover 1	D1	Curtailment due to C" Feeder and Mill trip on plugged chute."	0.27	0.11	1/19/2013 13:50	1/19/2013 14:06	173.0	46.1	$0
Clover 1	D1	Curtailment due to A" Feeder trip on error code 7 (plugged discharge chute)"	0.27	0.16	1/20/2013 13:47	1/20/2013 14:03	264.0	70.3	$0
Clover 1	D1	Curtailment due to C" Feeder trip. No Coal on belt."	0.20	0.02	1/21/2013 11:01	1/21/2013 11:13	52.0	10.3	$0
Clover 1	D1	Curtailment due to multiple feeder trips on F" Coal feeder. Wet coal."	0.18	0.09	1/30/2013 19:45	1/30/2013 19:56	216.0	39.7	$0
Clover 1	D1	Curtailment due to A" Feeder trip on plugged chute."	0.52	0.08	2/2/2013 16:05	2/2/2013 16:36	64.0	33.2	$0
Clover 1	D1	Curtailment due to F" Feeder trip on error code 3 (loss of tachometer)."	0.90	0.16	2/16/2013 12:22	2/16/2013 13:16	78.0	70.3	$0
Clover 1	D4	Maintenance Derate due to Drop 82 repair. WO#67603006	1.57	0.60	2/20/2013 11:00	2/20/2013 12:34	166.0	259.9	$1
Clover 1	D1	Curtailment due to A" Feeder trip on error code 3 (Loss of tachometer feedback). Found rock wedged in belt."	0.20	0.03	3/9/2013 10:41	3/9/2013 10:53	64.0	12.9	$0
Clover 1	D1	Curtailment due to A" Feeder trip on error code 8 (No coal on belt) and 12 (drive motor failure)."	0.87	0.18	3/22/2013 12:00	3/22/2013 12:52	91.0	78.9	$0
Clover 1	D1	Curtailment due to B" Feeder trip on Plugged inlet chute. Found rock in inlet chute."	0.52	0.07	4/18/2013 12:17	4/18/2013 12:48	62.0	31.9	$0
Clover 1	D1	Curtailment due to tripper deck grating lodged in B" Feeder Inlet Chute. WO#67628369"	4.05	1.01	4/23/2013 21:32	4/24/2013 1:35	107.0	433.2	$0
Clover 1	D2	Curtailment during Mill swap due to B" Mill rumbling coming from Jounal section of Mill. WO#67629765"	0.23	0.04	4/28/2013 8:57	4/28/2013 9:11	68.0	15.9	$1
Clover 1	PO	Planned U1 Spring Outage	190.72	190.72	5/4/2013 1:27	5/12/2013 0:10	431.3	82,256.2	$825
Clover 1	D1	Curtailment due to D" feeder trip on error code 00 (Overload)."	0.10	-	5/13/2013 16:39	5/13/2013 16:45	18.3	1.7	$0
Clover 1	D1	Curtailment due to A" Feeder trip on error code 00 (Overload). Rock found wedged in feeder."	0.60	0.11	6/6/2013 12:00	6/6/2013 12:36	80.3	48.3	$0
Clover 1	NC	Curtailment due to Halifax 2068 transmission line ground.	3.02	-	6/13/2013 6:13	6/13/2013 9:14	-	-	$0
Clover 1	D4	Curtailment due to Power Supply failure in Control Cabinet 311. WO#67662527	3.10	1.44	7/11/2013 17:35	7/11/2013 20:41	200.3	621.1	$1
Clover 1	D1	Curtailment due to torn feeder belt on A" feeder. Power card reseated "F" feeder. WO#67665746"	1.78	0.22	7/20/2013 17:53	7/20/2013 19:40	53.3	94.9	$2
Clover 1	D4	Drop 32 repair. WO #67665484	1.62	0.48	7/21/2013 2:58	7/21/2013 4:35	128.3	207.5	$0
Clover 1	D1	Curtailment due to A" feeder trip on error code 12 (Motor speed control error). WO#67667644"	0.73	0.11	7/24/2013 15:36	7/24/2013 16:20	65.3	47.9	$2
Clover 1	D4	Maintenance derate due to Thickener issues on Unit 1 Thickener.	20.78	11.39	8/24/2013 0:01	8/24/2013 20:48	236.3	4,911.2	$0
Clover 1	D2	Curtailment due to SSC Hydraulic Drive High Pressure line failure. WO#67685728	2.78	1.53	9/6/2013 5:50	9/6/2013 8:37	237.3	660.3	$0
Clover 1	D2	Curtailment due to MCD-1 FD fan damper stuck at 48%. WO#67686605	3.47	0.25	9/8/2013 9:36	9/8/2013 13:04	31.3	108.7	$3
Clover 1	D4	Scheduled maintenance derate to repair broken MCD-1 control damper on A" FD Fan. WO#67686605"	3.12	0.21	9/13/2013 6:00	9/13/2013 9:07	28.3	88.4	$0
Clover 1	D2	Curtailment due to Drop 16 in alarm. WO#67696497	1.03	0.30	10/2/2013 19:21	10/2/2013 20:23	125.3	129.4	$0
Clover 1	D1	Curtailment due to D" feeder trip on error code 08 (No Coal on Belt)."	0.23	0.03	11/4/2013 12:19	11/4/2013 12:33	50.0	11.9	$0
Clover 1	D1	Curtailment due to D" feeder trip caused by 480V breaker trip."	0.20	0.02	11/20/2013 8:49	11/20/2013 9:01	37.0	7.5	$0
Clover 1	D4	Maintenance derate to repair drive forks on A" Forced Draft Fan. (WO#67716987)"	2.32	1.02	11/27/2013 9:00	11/27/2013 11:19	193.0	447.0	$1
Clover 1	U1	Automatic Unit trip due to Operator Error.	7.27	7.27	11/27/2013 11:19	11/27/2013 18:35	440.0	3,197.5	$0

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Clover 1	D1	Curtailment due to necessary Mill transport on E" Mill."	0.53	0.04	12/15/2013 8:36	12/15/2013 9:08	34.0	18.0	$0
Clover 1	D2	Curtailment due to Drop 17 in alarm. (WO#67727617)	0.90	0.23	12/31/2013 17:30	12/31/2013 18:24	113.0	101.6	$0
Clover 2	D2	Curtailment due to B" ID fan rejecting to manual. ID "B" fan dampers failed closed. WO#67582998"	9.53	1.83	1/7/2013 6:55	1/7/2013 16:27	84.0	800.7	$2
Clover 2	D1	Curtailment due to wet coal on C" coal feeder. Multiple starts caused delay in startup process."	4.25	2.68	1/15/2013 7:00	1/15/2013 11:15	276.0	1,173.0	$0
Clover 2	D1	Curtailment due to B" Feeder trip due to plugged discharge chute."	0.43	0.27	1/19/2013 15:14	1/19/2013 15:40	269.0	116.5	$0
Clover 2	D1	Curtailment due to C" Feeder trip due to plugged chute."	0.28	0.17	1/19/2013 16:25	1/19/2013 16:42	258.0	73.1	$0
Clover 2	D1	Curtailment due to B" Feeder trip due to wet coal."	0.90	0.60	1/20/2013 19:33	1/20/2013 20:27	290.0	261.0	$0
Clover 2	D1	Curtailment due to C" Feeder trip due to wet coal."	0.22	0.10	1/20/2013 22:59	1/20/2013 23:12	208.0	45.1	$0
Clover 2	D1	Curtailment due to C" Feeder trip due to a plugged chute."	0.23	0.05	1/21/2013 15:10	1/21/2013 15:24	87.0	20.1	$0
Clover 2	D1	Curtailment due to B" Feeder trip due to a plugged chute."	0.17	0.03	1/21/2013 18:13	1/21/2013 18:23	75.0	12.7	$0
Clover 2	D1	Curtailment due to B" Feeder trip due to a plugged chute."	0.15	0.02	1/21/2013 18:43	1/21/2013 18:52	59.0	8.8	$0
Clover 2	D4	Planned derate to perform valve leak repair on A" Steam Driven Boiler Feedpump. WO#67508070"	5.03	2.63	1/30/2013 9:00	1/30/2013 14:02	229.0	1,152.8	$3
Clover 2	D1	Curtailment due to C" feeder trip. Found rock in feeder."	0.52	0.12	1/30/2013 19:15	1/30/2013 19:46	101.0	52.1	$0
Clover 2	D4	Reduced load to repair DPU 12. WO#67595128	1.83	0.83	2/2/2013 13:00	2/2/2013 14:50	198.0	363.1	$0
Clover 2	D4	Maintenance derate to replace B" Boiler Feedpump Rotor Position Sensor. WO#67598792"	4.00	0.61	2/9/2013 9:28	2/9/2013 13:28	67.0	268.1	$1
Clover 2	D1	Curtailment due to A" Feeder trip on error code 9 (Remote TCI Error)."	0.20	0.14	2/9/2013 15:29	2/9/2013 15:41	300.0	60.0	$0
Clover 2	D1	Curtailment due to A" Feeder trip due to a seized coal belt."	0.27	0.06	2/26/2013 8:59	2/26/2013 9:15	93.0	25.0	$0
Clover 2	D1	Curtailment due to the simultaneous losses of A" and "F" coal feeders. WO#67607640	5.88	1.17	3/4/2013 2:49	3/4/2013 8:42	87.0	512.0	$2
Clover 2	D4	Curtailment due to trouble with Drop 30 in the DCS control system. WO#67623590	1.57	0.27	4/10/2013 22:21	4/10/2013 23:55	74.0	116.1	$7
Clover 2	PO	Planned U2 Spring Outage	185.88	185.88	5/14/2013 0:18	5/21/2013 18:11	437.2	81,268.0	$812
Clover 2	D1	Curtailment due to communication fault on drop 31/81.	3.88	2.38	5/24/2013 10:57	5/24/2013 14:50	268.2	1,041.4	$0
Clover 2	D1	Curtailment due to B" feeder trip on plugged discharge chute."	0.33	0.05	6/6/2013 10:45	6/6/2013 11:05	64.2	21.4	$0
Clover 2	D1	Curtailment due to Drop 56 repairs. WO#67646214	1.50	0.23	6/7/2013 6:47	6/7/2013 8:17	67.2	101.0	$2
Clover 2	D1	Curtailment due to Drop 11 repairs.	0.68	0.26	6/7/2013 8:17	6/7/2013 8:58	168.2	115.0	$0
Clover 2	NC	Curtailment due to Halifax 2068 transmission line ground.	3.93	-	6/13/2013 5:18	6/13/2013 9:14	-	-	$0
Clover 2	D1	Curtailment due to B" feeder trip on plugged discharge chute."	0.85	0.51	6/23/2013 1:23	6/23/2013 2:14	263.2	223.8	$0
Clover 2	U2	Forced Outage due to Reheater Tube Leak Assembly 5 Tube 8. WO#67665503	51.03	51.03	7/19/2013 12:34	7/21/2013 15:36	437.2	22,311.6	$33
Clover 2	D4	Curtailment due to repair work on Governor Valve #4. Broken Extension Spring replacement. WO# 67670756	2.70	0.60	8/2/2013 7:00	8/2/2013 9:42	97.2	262.3	$2
Clover 2	D1	Curtailment due to B" feeder trip on plugged chute. Found rope on Plugged chute switch."	0.22	0.12	8/17/2013 9:09	8/17/2013 9:22	250.2	54.2	$0
Clover 2	D4	Maintenance derate due to Thickener issues on Unit 1 Thickener.	20.78	11.80	8/24/2013 0:01	8/24/2013 20:48	248.2	5,158.5	$0
Clover 2	D1	Curtailment due to Alpha Boiler Feedpump cycling. WO#67682076	5.37	1.64	8/30/2013 4:19	8/30/2013 9:41	133.2	714.8	$2
Clover 2	MO	Maintenance Outage due to an Extended Sidewall Tube Leak. WO#67679997	35.40	35.40	9/3/2013 3:01	9/4/2013 14:25	437.2	15,476.9	$0
Clover 2	D4	Scheduled Derate to make repairs to DPUs 30 and 33. WO#67689842	2.30	1.32	9/18/2013 0:00	9/18/2013 2:18	250.2	575.4	$0
Clover 2	U2	Forced outage due to Reheater Tube leak (Vertical Spaced Front Assembly 24). WO#67690123	62.70	62.70	9/18/2013 13:16	9/21/2013 3:58	437.2	27,412.4	$8
Clover 2	U1	Forced Outage due to Unit 2 Automatic Trip (FSSS). WO#67691510	7.17	7.17	9/21/2013 9:03	9/21/2013 16:13	437.2	3,133.4	$2
Clover 2	D2	Curtailment due to SSC wet side leak. WO#67693722	6.68	2.85	10/2/2013 16:53	10/2/2013 23:34	186.2	1,244.3	$1
Clover 2	D1	Curtailment due to E" Feeder trip on Code 8 (No Material on Belt)."	0.48	0.07	10/3/2013 12:56	10/3/2013 13:25	60.2	29.3	$0
Clover 2	D2	Curtailment due to Main Turbine Channel #1 Low Bearing Oil Pressure switch failure.	0.48	0.19	10/12/2013 5:00	10/12/2013 5:29	171.2	82.6	$0
Clover 2	D1	Curtailment due to C" Feeder trip on Colde 8 (No Material on belt)."	0.18	0.02	10/20/2013 11:25	10/20/2013 11:36	41.2	7.4	$0
Clover 2	U2	Forced outage due to Reheater Tube leak (Vertical Spaced Front Assembly 7). WO#67714452	57.20	57.20	11/20/2013 14:36	11/22/2013 23:48	437.2	25,007.8	$17
Clover 2	D1	Curtailment due to E" Feeder trip on Code 8 (No coal on belt)."	0.18	0.02	12/6/2013 22:12	12/6/2013 22:23	41.2	7.4	$0
Clover 2	U2	Forced outage due to Reheater Tube leak (Vertical Spaced Front Assembly 40, Tube 6). WO#67722860	53.27	53.27	12/17/2013 0:26	12/19/2013 5:42	437.2	23,288.3	$12
Cushaw 1	NC	Cushaw unit 1 grease bearing is making noise and vibrating. Incremental cost occurred to 67461982	1,882.25	-	12/21/2011 9:34	3/20/2013 11:15	-	-	$0
Cushaw 1	NC	Unit 4 tripped off line the B-Generator Lead is damaged. Incremental cost occurred to 67434989	4,260.27	-	1/1/2012 6:48	6/27/2013 13:16	-	-	$0
Cushaw 1	NC	Unit 5 tripped off line when generating due to high bearing temperature. Incremental cost occurred to	8,760.00	-	8/20/2012 8:35		-	-	$0
Cushaw 1	D1	The river flow will only support the operation of one unit. No incremental cost occurred.	83.83	4.19	12/25/2012 11:35	1/4/2013 11:50	0.1	8.4	$0
Cushaw 1	U1	The river flow will not support the operations of any units. No incremental cost occurred.	118.25	118.25	1/4/2013 11:50	1/9/2013 10:05	2.0	236.5	$0
Cushaw 1	D1	The units were put on line to exercise them so they will start remotely when needed. No incremental cost occurred.	3.87	0.19	1/9/2013 10:05	1/9/2013 13:57	0.1	0.4	$0
Cushaw 1	U1	The river flow will not support the operations of any units. No incremental cost occurred.	116.25	116.25	1/9/2013 13:57	1/14/2013 10:12	2.0	232.5	$0
Cushaw 1	D1	The river flow will only support the operation of one unit. No incremental cost occurred.	48.42	2.42	1/14/2013 10:12	1/16/2013 10:37	0.1	4.8	$0
Cushaw 1	U1	The river flow is too great to operate any units. No incremental cost occurred.	69.30	69.30	1/16/2013 12:12	1/19/2013 9:30	2.0	138.6	$0
Cushaw 1	D1	The river flow is too high to support operating more than one unit. No incremental cost occurred.	22.93	1.15	1/19/2013 9:30	1/20/2013 8:26	0.1	2.3	$0
Cushaw 1	D1	The river flow will only support the operation of 1 unit. No incremental cost occurred.	86.28	4.31	1/27/2013 7:11	1/30/2013 21:28	0.1	8.6	$0
Cushaw 1	U1	Due to high river flow no units can operate. No incremental cost occurred.	102.57	102.57	1/31/2013 0:34	2/4/2013 7:08	2.0	205.1	$0
Cushaw 1	MO	The units were taken off line to provide additional water to water up unit 1. No incremental cost occurred.	24.73	24.73	2/13/2013 13:36	2/14/2013 14:20	2.0	49.5	$0
Cushaw 1	D1	The river flow will only support operations of one unit. No incremental cost	119.48	5.38	2/14/2013 15:23	2/19/2013 14:52	0.1	10.8	$0
Cushaw 1	D1	The river flow will only support operations of one unit. No incremental cost occurred	162.75	8.14	2/19/2013 15:30	2/26/2013 10:15	0.1	16.3	$0
Cushaw 1	D1	The river flow will only support operations of one unit. No incremental cost occurred.	22.40	1.12	2/26/2013 11:30	2/27/2013 9:54	0.1	2.2	$0

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2013 Power Generation Outage Report
(Fossil & Hydro)

Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2013 Dates Start	2013 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Cushaw 1	U1	The units tripped off due to loss of offsite power. No incremental cost occurred.	8.17	8.17	3/6/2013 5:50	3/6/2013 14:00	2.0	16.3	$0
Cushaw 1	U1	All units are off line because the river flow is too great to operate. No incremental cost occurred.	138.63	138.63	5/7/2013 12:24	5/13/2013 7:02	2.0	277.3	$0
Cushaw 1	D1	Unit 2 grease system trouble alarm came in and there were no other units available to operate. No incremental cost occurred	19.22	0.96	5/14/2013 16:12	5/15/2013 11:25	0.1	1.9	$0
Cushaw 1	D1	Unit 2 grease system trouble alarm came in and there were no other units available to operate. No incremental cost occurred	58.18	2.91	5/16/2013 20:19	5/19/2013 6:30	0.1	5.8	$0
Cushaw 1	U1	Unit 2 and 3 grease system trouble alarm came in and there were no other units available to operate. No incremental cost occurred	76.33	76.33	5/19/2013 6:30	5/22/2013 10:50	2.0	152.7	$0
Cushaw 1	D1	Unit 2 grease system trouble alarm came in and there were no other units available to operate. No incremental cost occurred	138.10	6.91	5/23/2013 20:16	5/29/2013 14:22	0.1	13.8	$0
Cushaw 1	D1	The river flow would only support the operating of one unit. No incremental cost occurred.	185.48	4.64	5/29/2013 16:01	6/6/2013 9:30	0.1	9.3	$0
Cushaw 1	U1	All units were taken off line due to the river flow being too high to operate. No incremental cost occurred.	11.33	11.33	6/7/2013 0:07	6/7/2013 11:27	2.0	22.7	$0
Cushaw 1	D1	The river flow would only support operating one unit. No incremental cost occurred.	31.98	1.60	6/7/2013 11:27	6/8/2013 19:26	0.1	3.2	$0
Cushaw 1	NC	Maintenance was trouble shooting a problem on unit 4 they accidently opened a breaker on unit 2 instead of unit 4 and tripped the unit off line. No incremental cost occurred.	3.08	-	6/26/2013 10:54	6/26/2013 13:59	-	-	$0
Cushaw 1	U1	The 28 line tripped due to lighting, tripping the units off line. No incremental cost occurred.	38.65	38.65	6/29/2013 22:19	7/1/2013 12:58	2.0	77.3	$0
Cushaw 1	D1	The river flow would only support the operations of one unit. No incremental cost occurred.	15.53	0.78	7/1/2013 15:01	7/2/2013 6:33	0.1	1.6	$0
Cushaw 1	U1	The river flow is too high to produce the head differential needed to operate the units. No incremental cost occurred.	51.45	51.45	7/4/2013 14:55	7/6/2013 18:22	2.0	102.9	$0
Cushaw 1	NC	The unit is out of service due to the water bearing making noise. Incremental cost occurred to 67659948	743.68	-	7/7/2013 13:13	8/7/2013 12:54	-	-	$0
Cushaw 1	U1	The 28 line tripped due to lighting, tripping the units off line. No incremental cost occurred.	17.78	17.78	7/10/2013 15:01	7/11/2013 8:48	2.0	35.6	$0
Cushaw 1	D1	The river flow will only support the operations of one unit. No incremental cost occurred.	696.80	34.84	7/30/2013 14:39	8/28/2013 15:27	0.1	69.7	$0
Cushaw 1	NC	The unit is out of service due to the water bearing making noise. Incremental cost occurred to 67659948	3,516.00	-	8/7/2013 13:00		-	-	$0
Cushaw 1	U1	Due to lack of river flow all units were taken off line. No incremental cost occurred.	16.13	16.13	8/28/2013 15:27	8/29/2013 7:35	2.0	32.3	$0
Cushaw 1	D1	The river flow will only support the operation of one unit. No incremental cost occurred.	199.92	10.00	8/29/2013 7:35	9/6/2013 15:30	0.1	20.0	$0
Cushaw 1	U1	The river flow will only support the operation of any units. No incremental cost occurred.	113.33	113.33	9/6/2013 15:30	9/11/2013 8:50	2.0	226.7	$0
Cushaw 1	D1	The river flow will only support the operation of any units, running units to exercise gates. No incremental cost occurred.	6.00	0.30	9/11/2013 8:50	9/11/2013 14:50	0.1	0.6	$0
Cushaw 1	U1	The river flow will only support the operation of any units. No incremental cost occurred.	43.25	43.25	9/11/2013 14:50	9/13/2013 10:05	2.0	86.5	$0
Cushaw 1	D1	The river flow will only support the operations of one unit. No incremental cost occurred.	1.67	0.08	9/13/2013 10:05	9/13/2013 11:45	0.1	0.2	$0
Cushaw 1	U1	The river flow will not support the operation of any units. No incremental cost occurred.	1,782.75	1,782.75	9/13/2013 11:45	11/26/2013 17:30	2.0	3,565.5	$0
Cushaw 1	U1	No units can be run due to the operating computer hard drive failed.	379.08	379.08	11/26/2013 17:30	12/12/2013 12:35	2.0	758.2	$0
Cushaw 1	U1	The river flow is too great to support the operation of any units. No incremental cost occurred.	68.57	68.57	12/24/2013 11:45	12/27/2013 8:19	2.0	137.1	$0
Cushaw 1	U1	The river flow is too great to support the operation of any units. No incremental cost occurred.	43.83	43.83	12/30/2013 4:10	1/2/2014 9:37	2.0	87.7	$0
Darbytown CT1	U1	67591090 - GAS PURGE VENT LINE SOLENOID VALVE FAILURE	2.97	2.97	1/23/2013 19:02	1/23/2013 22:00	85.0	252.2	$0
Darbytown CT1	MO	67630211 - REPLACE WATER INJECTION VALVE ACTUATOR	8.00	8.00	4/29/2013 7:00	4/29/2013 15:00	85.0	680.0	$0
Darbytown CT1	MO	67640658 - REPLACE FUEL FLOW DIVIDER AND REPAIR EXHAUST DIFFUSER	56.00	56.00	5/28/2013 7:00	5/30/2013 15:00	85.0	4,760.0	$3
Darbytown CT1	U1	67652917 - R POWER SUPPLY FAILURE	2.02	2.02	6/24/2013 18:28	6/24/2013 20:30	85.0	171.4	$5
Darbytown CT1	PO	67697838 - BORESCOPE INSPECTION	138.32	138.32	10/9/2013 0:01	10/14/2013 18:20	85.0	11,756.9	$5
Darbytown CT1	MO	67480059, 67480063, 67480075 - SWITCHYARD PROTECTIVE RELAY OPERATIONAL TESTING & TRANSFORMER TESTING	106.50	106.50	11/4/2013 7:00	11/8/2013 17:30	85.0	9,052.5	$0
Darbytown CT2	U1	67589836 - AUX LUBE OIL COUPLING REPAIR	2.25	2.25	1/22/2013 13:00	1/22/2013 15:15	85.0	191.3	$0
Darbytown CT2	NC	67590575 - Temperature Spread	4.87	-	1/22/2013 15:47	1/22/2013 20:39	-	-	$0
Darbytown CT2	NC	67590575 - Temperature Spread	7.70	-	1/23/2013 5:43	1/23/2013 13:25	-	-	$0
Darbytown CT2	MO	67590575 - FUEL NOZZLE CHANGEOUT	13.90	13.90	1/28/2013 6:00	1/28/2013 19:54	85.0	1,181.5	$19
Darbytown CT2	MO	67604131 - REPLACEMENT OF AUX LUBE OIL PUMP	11.00	11.00	3/8/2013 6:00	3/8/2013 17:00	85.0	935.0	$0
Darbytown CT2	MO	67640659 - REPAIR EXHAUST DIFFUSER	57.50	57.50	5/28/2013 7:00	5/30/2013 16:30	85.0	4,887.5	$2
Darbytown CT2	MO	67480060, 67480064, 67480076 - SWITCHYARD PROTECTIVE RELAY OPERATIONAL TESTING & TRANSFORMER TESTING	81.00	81.00	11/4/2013 7:00	11/7/2013 16:00	85.0	6,885.0	$0
Darbytown CT3	MO	67480061, 67480065, 67480077 - SWITCHYARD PROTECTIVE RELAY OPERATIONAL TESTING & TRANSFORMER TESTING	56.50	56.50	11/12/2013 7:00	11/14/2013 15:30	85.0	4,802.5	$0
Darbytown CT3	MO	67714046 - INLET GUIDE VANE REPAIR	32.00	32.00	11/19/2013 7:00	11/20/2013 15:00	85.0	2,720.0	$2
Darbytown CT4	PO	67697839 - BORESCOPE INSPECTION	114.32	114.32	10/10/2013 0:01	10/14/2013 18:20	85.0	9,716.9	$5
Darbytown CT4	MO	67480062, 67480066, 67480078 - SWITCHYARD PROTECTIVE RELAY OPERATIONAL TESTING & TRANSFORMER TESTING	56.50	56.50	11/12/2013 7:00	11/14/2013 15:30	85.0	4,802.5	$0
Darbytown CT4	MO	67714047 - EXHAUST DIFFUSER CRACK REPAIR	55.75	55.75	11/20/2013 7:00	11/22/2013 14:45	85.0	4,738.8	$3
Elizabeth River 1	MO	67486033 - INSPECTION OF PT & CT WIRING	8.50	8.50	3/12/2013 7:00	3/12/2013 15:30	109.0	926.5	$0
Elizabeth River 1	U1	67664712, 67664711 - WATER INJECTION PUMP REPAIR	51.25	51.25	7/17/2013 16:15	7/19/2013 19:30	109.0	5,586.3	$0
Elizabeth River 1	PO	67486032,67486033 - PROTECTION RELAY REPLACEMENT/SYNCHRONIZER EQUIPMENT UPGRADE	510.38	510.38	9/16/2013 7:00	10/7/2013 13:23	109.0	55,631.7	$0
Elizabeth River 1	PO	PROTECTIVE RELAY REPLACEMENT	0.35	0.35	10/7/2013 13:37	10/7/2013 13:58	109.0	38.2	$0

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Elizabeth River 1	MO	TRANSMISSION SYSTEM MAINTENANCE	56.00	56.00	11/3/2013 8:00	11/5/2013 16:00	109.0	6,104.0	$0
Elizabeth River 1	ME	TRANSMISSION SYSTEM MAINTENANCE EXTENSION	16.27	16.27	11/5/2013 16:00	11/6/2013 8:16	109.0	1,773.1	$0
Elizabeth River 2	MO	67486033 - INSPECTION OF PT & CT WIRING	5.50	5.50	3/13/2013 7:00	3/13/2013 12:30	107.0	588.5	$0
Elizabeth River 2	PO	67486032,67486033 - PROTECTION RELAY REPLACEMENT/SYNCHRONIZER EQUIPMENT UPGRADE	491.92	491.92	10/1/2013 0:01	10/21/2013 11:56	107.0	52,635.1	$0
Elizabeth River 2	PO	PROTECTIVE RELAY REPLACEMENT	2.67	2.67	10/21/2013 12:27	10/21/2013 15:07	107.0	285.4	$0
Elizabeth River 2	PO	PROTECTIVE RELAY REPLACEMENT	0.15	0.15	10/21/2013 15:18	10/21/2013 15:27	107.0	16.1	$0
Elizabeth River 2	PO	PROTECTIVE RELAY REPLACEMENT	0.07	0.07	10/21/2013 15:30	10/21/2013 15:34	107.0	7.2	$0
Elizabeth River 2	MO	TRANSMISSION SYSTEM MAINTENANCE	56.00	56.00	11/3/2013 8:00	11/5/2013 16:00	107.0	5,992.0	$0
Elizabeth River 2	ME	TRANSMISSION SYSTEM MAINTENANCE EXTENSION	16.50	16.50	11/5/2013 16:00	11/6/2013 8:30	107.0	1,765.5	$0
Elizabeth River 3	MO	67486033 - INSPECTION OF PT & CT WIRING	4.00	4.00	3/14/2013 7:00	3/14/2013 11:00	109.0	436.0	$0
Elizabeth River 3	U1	67698086 - HIGH BLADE PATH SPREAD	2.30	2.30	10/5/2013 20:42	10/5/2013 23:00	109.0	250.7	$0
Elizabeth River 3	MO	67631479 - REPLACE FAILED IGV CONTROLLER/POSITIONER	28.00	28.00	10/9/2013 7:00	10/10/2013 11:00	109.0	3,052.0	$3
Elizabeth River 3	MO	67486033, 67486032 - PROTECTIVE RELAY REPLACEMENT/SYNCHRONIZER EQUIPMENT UPGRADE	137.02	137.02	10/16/2013 7:00	10/22/2013 0:01	109.0	14,934.9	$0
Elizabeth River 3	PO	67486033, 67486032 - PROTECTIVE RELAY REPLACEMENT/SYNCHRONIZER EQUIPMENT UPGRADE	372.70	372.70	10/22/2013 0:01	11/6/2013 11:43	109.0	40,624.3	$0
Elizabeth River 3	PO	CONTINUATION OF PO	0.25	0.25	11/6/2013 11:45	11/6/2013 12:00	109.0	27.3	$0
Elizabeth River 3	PO	CONTINUATION OF PO	0.08	0.08	11/6/2013 12:02	11/6/2013 12:07	109.0	9.0	$0
Gaston 1	MO	GASTON UNIT 1 MO FOR STATION UPS REPLACEMENT	6.50	6.50	5/8/2013 8:00	5/8/2013 14:30	55.0	357.5	$0
Gaston 1	U1	(67663566) GASTON UNIT 1 WICKET GATE SHEAR PIN FAILURE	143.97	143.97	7/5/2013 14:02	7/11/2013 14:00	55.0	7,918.2	$0
Gaston 1	U1	GA1 FO SHEAR PIN SWTCH WIRE BROKEN	2.17	2.17	10/28/2013 6:05	10/28/2013 8:15	55.0	119.2	$0
Gaston 2	U1	U1 GASTON UNIT 2 TRIPPED OFFLINE DUE TO INCORRECT SPEED SIGNAL	13.33	13.33	1/17/2013 23:10	1/18/2013 12:30	55.0	733.3	$0
Gaston 2	D1	Forced Derate during Test Start of Unit 2	0.03	0.03	1/18/2013 12:30	1/18/2013 12:32	50.0	1.7	$0
Gaston 2	U1	Gaston Unit 2 Forced Outage due to unit trip on 1/17/2013	95.90	95.90	1/18/2013 12:35	1/22/2013 12:29	55.0	5,274.5	$0
Gaston 2	SF	GASTON UNIT 2 SF DUE TO START TIME EXCEEDANCE	7.00	7.00	2/18/2013 6:00	2/18/2013 13:00	55.0	385.0	$0
Gaston 2	U1	GASTON UNIT 2 FORCED OUTAGE DUE TO SYNCHRONIZATION FAILURE	2.50	2.50	2/18/2013 13:10	2/18/2013 15:40	55.0	137.5	$0
Gaston 2	SF	Gaston Unit 2 Start Failure	8.25	8.25	3/7/2013 7:00	3/7/2013 15:15	55.0	453.8	$0
Gaston 2	SF	Start Failure Gaston Unit 2	2.50	2.50	3/16/2013 9:00	3/16/2013 11:30	55.0	137.5	$0
Gaston 2	SF	Start Failure Gaston Unit 2	21.97	21.97	3/16/2013 20:00	3/17/2013 17:58	55.0	1,208.2	$0
Gaston 2	SF	Gaston Unit 2 Start Failure	8.25	8.25	3/21/2013 6:00	3/21/2013 14:15	55.0	453.8	$0
Gaston 2	SF	Gaston Unit 2 Start Failure	5.33	5.33	3/22/2013 6:00	3/22/2013 11:20	55.0	293.3	$0
Gaston 2	SF	Gaston Unit 2 Start Failure	19.83	19.83	3/22/2013 19:00	3/23/2013 14:50	55.0	1,090.8	$0
Gaston 2	MO	Gaston Unit 2 Maintenance Outage	56.00	56.00	3/25/2013 7:00	3/27/2013 15:00	55.0	3,080.0	$0
Gaston 2	MO	GASTON UNIT 2 MO FOR STATION UPS REPLACEMENT	6.50	6.50	5/8/2013 8:00	5/8/2013 14:30	55.0	357.5	$0
Gaston 3	PO	GASTON UNIT 3 PLANNED OUTAGE (67607138)	2,182.98	2,182.98	3/2/2013 0:00	5/31/2013 23:59	55.0	120,064.1	$0
Gaston 3	SF	GASTON UNIT 3 FO due to Coil Failure	2,014.43	2,014.43	5/31/2013 23:59	8/23/2013 22:25	55.0	110,793.8	$0
Gaston 3	D1	Failed Summer 2013 Capacity Test. Derated 1 MW.	4,393.00	43.12	6/1/2013 0:00	12/1/2013 0:00	1.0	2,371.4	$0
Gaston 3	U1	67704660 FO GA3 AC SUMP PUMP FAILED	7.17	7.17	10/28/2013 3:05	10/28/2013 10:15	55.0	394.2	$1
Gaston 4	MO	GASTON Unit 4 MO (67631668)	75.90	75.90	4/23/2013 7:06	4/26/2013 11:00	55.0	4,174.5	$0
Gaston 4	MO	GASTON UNIT 4 MO for Station UPS Replacement	6.50	6.50	5/8/2013 8:00	5/8/2013 14:30	55.0	357.5	$0
Gaston 4	U1	GASTON UNIT 4 FO Turbine Bearing Oil Level Low	1.50	1.50	5/9/2013 7:00	5/9/2013 8:30	55.0	82.5	$0
Gaston 4	U1	GASTON UNIT 4 FO Thrust Bearing High Temp	1.00	1.00	5/9/2013 19:00	5/9/2013 20:00	55.0	55.0	$0
Gaston 4	U1	FORCED OUTAGE GA4 BRAKES ENGAGED WITH UNIT AT FULL SPEED (67669041	3.00	3.00	7/27/2013 13:30	7/27/2013 16:30	55.0	165.0	$0
Gaston 4	U1	FO due to shorted Oil Pump Motor	102.00	102.00	12/26/2013 9:15	12/30/2013 15:15	55.0	5,610.0	$0
Gordonsville 1	U1	SC33 Event; WO# 67587649 - Unit tripped when a Unit 1 DCS Network Processor Module failed.	2.38	2.38	1/9/2013 10:38	1/9/2013 13:01	109.0	259.7	$5
Gordonsville 1	PO	Planned Outage for EDG system tie in to 4.16 kV switch gear.	168.00	168.00	5/3/2013 23:59	5/10/2013 23:59	109.0	18,312.0	$43
Gordonsville 1	U1	SC#33 Event, WO# 67635439 Unit 1 fuel gas and fuel oil stop valves will not open.	43.00	43.00	5/11/2013 0:00	5/12/2013 19:00	109.0	4,687.0	$47
Gordonsville 1	MO	Maintenance Outage	20.07	20.07	6/29/2013 0:01	6/29/2013 20:05	109.0	2,187.3	$13
Gordonsville 1	D1	Unit dropped out of Premix Stdy state due to damaged thermal couple wires, operator reduced load to reset control system. SC33 WO# 67662909	0.38	0.10	7/11/2013 15:32	7/11/2013 15:55	29.0	11.1	$0
Gordonsville 1	U1	CT tripped on high temperature spreads, operator manually tripped the steam turbine. SC33 WO# 67662909	4.53	4.53	7/11/2013 15:55	7/11/2013 20:27	109.0	494.1	$1
Gordonsville 1	D1	Unit 1 ACC Fan 4 tripped on low oil pressure indication, low oil pressure switch failed.	1.65	0.27	7/18/2013 17:34	7/18/2013 19:13	18.0	29.6	$1
Gordonsville 1	MO	Replace ACC fan 4 oil pressure switch and a DCS I/O card.	2.58	2.58	7/21/2013 6:24	7/21/2013 8:59	109.0	281.5	$1
Gordonsville 1	MO	Boroscope Inspection of CT.	12.98	12.98	9/18/2013 5:00	9/18/2013 17:59	109.0	1,415.1	$7
Gordonsville 1	PO	Safety Valve Testing	285.98	285.98	10/5/2013 0:01	10/16/2013 22:00	109.0	31,172.1	$113
Gordonsville 1	D1	During initial start attempt IGV's would not open, MKV processors locked up.	0.80	0.31	11/11/2013 6:00	11/11/2013 6:48	42.0	33.6	$0
Gordonsville 2	PO	Planned Outage for EDG system tie in to 4.16 kV switch gear.	168.00	168.00	5/3/2013 23:59	5/10/2013 23:59	109.0	18,312.0	$64
Gordonsville 2	NC	Black Start Testing Unit 2	1.93	-	5/10/2013 13:30	5/10/2013 15:26	-	-	$0
Gordonsville 2	U1	SC33 Event WO# 67636512 Unit 2 tripped to a Black Plant condition when 230 kv breaker G2T255 opened.	2.18	2.18	5/14/2013 12:37	5/14/2013 14:48	109.0	237.9	$1
Gordonsville 2	U1	Unit 2 CT tripped due to Gas Fuel Hydraulic Trip Pressure Low SC33 WO#67707779	5.48	5.48	7/16/2013 15:36	7/16/2013 21:05	109.0	597.3	$1

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Gordonsville 2	MO	To repair LP Economizer Tube Leak	17.50	17.50	9/17/2013 0:00	9/17/2013 17:30	109.0	1,907.5	$15
Gordonsville 2	PO	Safety Valve Testing	285.98	285.98	10/5/2013 0:01	10/16/2013 22:00	109.0	31,172.1	$779
Gordonsville 2	SF	MK V card failures prevented unit from being synchronized to the grid. SC33 WO #67714053	7.77	7.77	11/19/2013 8:00	11/19/2013 15:46	109.0	846.6	$18
Gravel Neck CT1	MO	67631020 - RELAY WORK	344.88	344.88	4/30/2013 7:30	5/14/2013 16:23	12.0	4,138.6	$0
Gravel Neck CT1	U1	67670137 - TURNING GEAR MOTOR REPAIRS	71.87	71.87	7/30/2013 12:00	8/2/2013 11:52	12.0	862.4	$9
Gravel Neck CT1	U1	67675560 - TRIPPED DUE TO GENERATOR NEGATIVE PHASE SEQUENCE PROTECTION DEVICE #46	2.45	2.46	8/13/2013 13:33	8/13/2013 16:00	12.0	29.4	$0
Gravel Neck CT1	MO	67675560 - GENERATOR OUTPUT BREAKER REPAIRS	8.58	8.58	8/15/2013 7:00	8/15/2013 15:35	12.0	103.0	$1
Gravel Neck CT2	MO	67631020 - RELAY WORK	344.88	344.88	4/30/2013 7:30	5/14/2013 16:23	16.0	5,518.1	$5
Gravel Neck CT2	MO	67675560 - MAIN TRANSFORMER SWITCHED OUT	8.58	8.58	8/15/2013 7:00	8/15/2013 15:35	16.0	137.3	$1
Gravel Neck CT3	MO	66143759 - PRE-OUTAGE INSPECTION (GENERATOR)	7.62	7.62	2/1/2013 7:00	2/1/2013 14:37	85.0	647.4	$0
Gravel Neck CT3	MO	67497384 - 2047 TRANSMISSION LINE RELAY MAINTENANCE & GSU	78.67	78.67	3/19/2013 6:50	3/22/2013 13:30	85.0	6,686.7	$0
Gravel Neck CT3	MO	67608923 - COMPRESSOR WASH	5.75	5.75	5/28/2013 9:00	5/28/2013 14:45	86.8	499.1	$0
Gravel Neck CT3	MO	SWITCHING FOR HOT GAS PATH INSPECTION	39.02	39.02	9/6/2013 9:00	9/8/2013 0:01	86.8	3,386.7	$0
Gravel Neck CT3	PO	67561413,67561414,67561415,67561416,67561417,67561418 - HOT GAS PATH INSPECTION	2,344.40	2,344.40	9/8/2013 0:01	12/14/2013 15:25	86.8	203,493.9	$1,317
Gravel Neck CT3	PO	67561413,67561414,67561415,67561416,67561417,67561418 - HOT GAS PATH INSPECTION	1.95	1.95	12/14/2013 16:10	12/14/2013 18:07	86.8	169.3	$0
Gravel Neck CT3	PO	67561413,67561414,67561415,67561416,67561417,67561418 - HOT GAS PATH INSPECTION	0.30	0.30	12/14/2013 18:42	12/14/2013 19:00	86.8	26.0	$0
Gravel Neck CT4	MO	67497384 - 2047 TRANSMISSION LINE RELAY MAINTENANCE & GSU	78.67	78.67	3/19/2013 6:50	3/22/2013 13:30	85.0	6,686.7	$0
Gravel Neck CT4	U1	67621081 - TRIP DUE TO FAILED CONTROL RELAY WHILE EMISSION (STACK) TESTING	3.08	3.08	4/4/2013 9:54	4/4/2013 12:59	85.0	262.1	$0
Gravel Neck CT4	MO	67608924 - COMPRESSOR WASH	5.75	5.75	5/28/2013 9:00	5/28/2013 14:45	88.0	506.0	$0
Gravel Neck CT4	MO	SWITCHING FOR UNIT 3 PLANNED OUTAGE	0.50	0.50	9/6/2013 9:00	9/6/2013 9:30	88.0	44.0	$0
Gravel Neck CT4	MO	67695398 - BORESCOPE INSPECTION	78.50	78.50	9/30/2013 7:00	10/3/2013 13:30	88.0	6,908.0	$7
Gravel Neck CT4	U1	67714045 - VOLTAGE REGULATOR	1.97	1.97	11/4/2013 6:48	11/4/2013 8:46	88.0	173.1	$0
Gravel Neck CT4	U1	67714045 - VOLTAGE REGULATOR	3.63	3.63	11/4/2013 9:01	11/4/2013 12:39	88.0	319.7	$0
Gravel Neck CT5	MO	67635198 - GSU TRANSFORMER MAINTENANCE	78.10	78.10	5/13/2013 8:15	5/16/2013 14:21	85.0	6,638.5	$0
Gravel Neck CT5	MO	67608925 - COMPRESSOR WASH	7.08	7.08	5/29/2013 8:00	5/29/2013 15:05	85.0	602.1	$0
Gravel Neck CT5	SF	67663990 - STARTING MOTOR ISSUE	9.33	9.33	7/15/2013 11:10	7/15/2013 20:30	85.0	793.3	$1
Gravel Neck CT5	PO	67697836 - BORESCOPE INSPECTION	81.75	81.75	10/7/2013 7:00	10/10/2013 16:45	85.0	6,948.8	$6
Gravel Neck CT5	U1	67721698, 67721697 - LUBE OIL PUMP FAILURE	6.83	6.83	12/11/2013 16:00	12/11/2013 22:50	85.0	580.8	$0
Gravel Neck CT6	U1	67608318 - FAILED AUXILIARY LUBE OIL PUMP MOTOR	9.00	9.00	3/4/2013 9:00	3/4/2013 18:00	85.0	765.0	$6
Gravel Neck CT6	U1	67661590 - AIR LEAK ON DRAIN LINE TO FALSE START DRAIN TANK	4.33	4.33	7/8/2013 10:39	7/8/2013 14:59	87.3	378.3	$0
Gravel Neck CT6	U1	67661874 - FALSE START DRAIN PIPING FAILURE	28.43	28.43	7/10/2013 10:19	7/11/2013 14:45	87.3	2,482.2	$1
Gravel Neck CT6	SF	67665053 - FAILED TO FIRE DUE TO FAULTY IGNITERS	1.52	1.52	7/18/2013 13:00	7/18/2013 14:31	87.3	132.4	$0
Gravel Neck CT6	SF	67666428 - TORQUE CONVERTER ACTUATOR FAILURE	53.78	53.78	7/21/2013 12:58	7/23/2013 18:45	87.3	4,695.3	$2
Gravel Neck CT6	PO	67697837 - BORESCOPE INSPECTION	81.75	81.75	10/7/2013 7:00	10/10/2013 16:45	87.3	7,136.8	$5
Ladysmith CT1	MO	Pre-HGP performance test preparation	34.17	34.17	2/18/2013 0:01	2/19/2013 10:11	151.0	5,159.2	$0
Ladysmith CT1	PO	Hot gas path inspection	1,164.07	1,164.07	3/9/2013 0:01	4/26/2013 13:05	151.0	175,774.1	$575
Ladysmith CT1	PO	Hot Gas Path Inspection	18.43	18.43	4/26/2013 16:02	4/27/2013 10:28	151.0	2,783.4	$0
Ladysmith CT1	MO	Boroscope Inspection	30.50	30.50	4/30/2013 7:00	5/1/2013 13:30	151.0	4,605.5	$0
Ladysmith CT1	MO	Replace combustion turbine liners	132.07	132.07	5/9/2013 21:00	5/15/2013 9:04	151.1	19,955.3	$0
Ladysmith CT1	PO	Replace combustion turbine liners	21.87	21.87	5/15/2013 12:25	5/16/2013 10:17	151.1	3,304.1	$0
Ladysmith CT1	PO	Replace combustion turbine liners	0.88	0.88	5/16/2013 19:37	5/16/2013 20:30	151.1	133.4	$0
Ladysmith CT1	PO	Boroscope inspection	224.52	224.52	9/14/2013 0:01	9/23/2013 8:32	151.1	33,924.5	$14
Ladysmith CT1	PO	Boroscope Inspection	24.52	24.52	9/23/2013 9:44	9/24/2013 10:15	151.1	3,704.5	$0
Ladysmith CT2	U1	Fired shutdown due to water injection valve failed to close	3.72	3.72	1/25/2013 16:30	1/25/2013 20:13	150.0	557.6	$0
Ladysmith CT2	MO	FPI Inspection	18.42	18.42	1/29/2013 0:00	1/29/2013 18:25	150.0	2,762.6	$3
Ladysmith CT2	MO	Pre-HGP performance test preparation	34.17	34.17	2/20/2013 0:01	2/21/2013 10:11	150.0	5,125.1	$0
Ladysmith CT2	PO	Hot Gas Path Inspection	1,218.70	1,218.70	3/4/2013 0:01	4/23/2013 19:43	150.0	182,805.0	$575
Ladysmith CT2	PO	Hot Gas Path Inspection	11.22	11.22	4/23/2013 22:18	4/24/2013 9:31	150.0	1,682.6	$0
Ladysmith CT2	MO	Boroscope Inspection	41.85	41.85	5/7/2013 21:00	5/9/2013 14:51	151.0	6,319.4	$0
Ladysmith CT2	MO	Replace combustion turbine liners	111.28	111.28	6/3/2013 18:00	6/8/2013 9:17	151.0	16,803.7	$0
Ladysmith CT2	MO	Replace combustion turbine liners	45.78	45.78	6/8/2013 12:46	6/10/2013 10:33	151.0	6,913.2	$0
Ladysmith CT2	PO	Boroscope Inspection	227.30	227.30	9/14/2013 0:01	9/23/2013 11:19	151.0	34,322.3	$13
Ladysmith CT2	PO	Boroscope Inspection	24.78	24.78	9/23/2013 12:23	9/24/2013 13:10	151.0	3,742.2	$0
Ladysmith CT3	PO	Spring outage inspection	204.15	204.15	4/13/2013 0:01	4/21/2013 12:10	161.0	32,868.2	$0
Ladysmith CT3	D1	Failed Summer 2013 Capacity Test	4,393.00	30.32	6/1/2013 0:00	12/1/2013 0:00	1.2	4,882.2	$0
Ladysmith CT3	MO	Replacement of U-3 UAT-3 SR-750 Relay (LADY-03-EPH-SCHM-UAT3-11) WO#67668015	21.25	21.25	7/29/2013 21:00	7/30/2013 18:15	161.0	3,421.3	$0
Ladysmith CT3	MO	Received Liq Fuel & Water Inj Purge Low Pressure Ratio alarms indicating loss of purge air	15.98	15.98	8/13/2013 0:00	8/13/2013 15:59	161.0	2,573.3	$0
Ladysmith CT3	MO	Investigate source of #1 Turbine bearing oil leak, hand clean the inlet bellmouth area and perform offline water wash	21.50	21.50	8/19/2013 0:00	8/19/2013 21:30	161.0	3,463.5	$0

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2013 Power Generation Outage Report
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Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2013 Dates Start	2013 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Ladysmith CT3	PO	Boroscope inspection	250.97	250.97	9/22/2013 0:01	10/2/2013 10:59	161.0	40,405.7	$11
Ladysmith CT3	MO	Closed Cooling water System Maintenance	14.82	14.82	11/8/2013 0:01	11/8/2013 14:50	161.0	2,385.5	$0
Ladysmith CT3	U1	False start drain valve position trouble	1.52	1.52	12/9/2013 12:28	12/9/2013 13:59	161.0	244.2	$0
Ladysmith CT4	PO	GT General unit inspection	186.65	186.65	4/22/2013 0:01	4/29/2013 18:40	160.0	29,864.0	$0
Ladysmith CT4	SF	SRV Positioner Problem	6.25	6.25	7/14/2013 10:45	7/14/2013 17:00	160.0	1,000.0	$0
Ladysmith CT4	PO	Boroscope inspection	274.60	274.60	9/22/2013 0:01	10/3/2013 10:37	160.0	43,936.0	$0
Ladysmith CT4	PO	Boroscope inspection	22.23	22.23	10/3/2013 11:33	10/4/2013 9:47	160.0	3,557.3	$8
Ladysmith CT5	PO	General Unit Inspection	185.23	185.23	5/1/2013 0:01	5/8/2013 17:15	160.0	29,637.3	$0
Ladysmith CT5	PO	Boroscope inspection	255.50	255.50	9/22/2013 0:01	10/2/2013 15:31	160.0	40,880.0	$5
Ladysmith CT5	SF	Static Starter Connect Sequence issue. Unit unable to start.	0.50	0.50	11/14/2013 6:00	11/14/2013 6:30	160.0	80.0	$1
Ladysmith CT5	U1	Static Starter Connect Sequence issue. Unit unable to start.	12.33	12.33	11/14/2013 6:30	11/14/2013 18:50	160.0	1,973.3	$0
Ladysmith CT5	U1	False Start Drain Valve Trouble	1.87	1.87	12/9/2013 18:46	12/9/2013 20:38	160.0	298.7	$0
Low Moor CT1	MO	67608938 - ANNUAL BLACK START TESTING	1.60	1.60	4/24/2013 10:44	4/24/2013 12:20	12.0	19.2	$0
Low Moor CT1	U1	67653503 - CONTROL SYSTEM MODULE FAILURE	30.05	30.05	6/25/2013 8:30	6/26/2013 14:33	12.0	360.6	$8
Low Moor CT2	MO	67608938 - ANNUAL BLACK START TESTING	1.60	1.60	4/24/2013 10:44	4/24/2013 12:20	12.0	19.2	$0
Low Moor CT3	MO	67608938 - ANNUAL BLACK START TESTING	1.60	1.60	4/24/2013 10:44	4/24/2013 12:20	12.0	19.2	$0
Low Moor CT3	MO	67648375 - GSU #2 TRANSFORMER MAINTENANCE	6.42	6.42	6/12/2013 9:20	6/12/2013 15:45	12.0	77.0	$0
Low Moor CT4	MO	67608938 - ANNUAL BLACK START TESTING	1.60	1.60	4/24/2013 10:44	4/24/2013 12:20	12.0	19.2	$0
Low Moor CT4	MO	67648375 - GSU #2 TRANSFORMER MAINTENANCE	6.42	6.42	6/12/2013 9:20	6/12/2013 15:45	12.0	77.0	$0
Mecklenburg 1	D1	Start-up delayed due to ID fan brg heater & tripped blr messing w/ guillotine drive	2.10	1.59	2/18/2013 4:00	2/18/2013 6:06	52.2	109.7	$0
Mecklenburg 1	MO	MO for tube repair from Sootblower damage	48.00	48.00	2/25/2013 7:00	2/27/2013 7:00	69.0	3,312.0	$6
Mecklenburg 1	U1	PA Fan IB Brg failure	13.93	13.93	11/7/2013 12:02	11/8/2013 1:58	69.0	961.4	$1
Mecklenburg 1	MO	Planned Outage	167.72	167.72	11/13/2013 0:17	11/20/2013 0:00	69.0	11,572.5	$144
Mecklenburg 1	D1	Boiler MFT - T/G did not trip - back on AGC at 0552	0.30	0.28	11/20/2013 5:34	11/20/2013 5:52	64.0	19.2	$0
Mecklenburg 1	U1	Boiler MFT - air flow transmitter malfunction / Operator shut down the T/G.	2.65	2.65	11/20/2013 6:55	11/20/2013 9:34	69.0	182.9	$0
Mecklenburg 1	U1	Boiler code compliance issue. Superheater drain piping specs wrong.	35.65	35.65	11/20/2013 14:21	11/22/2013 2:00	69.0	2,459.9	$0
Mecklenburg 2	SF	Guillotine damper drive failed and delayed start-up. Dispatch was 60 MW @ 0400	0.77	0.77	2/18/2013 4:00	2/18/2013 4:46	69.0	52.9	$0
Mecklenburg 2	D1	Guillotine damper failed. Unit derated until MOC changed dispatch to go on AGC.	3.63	3.24	2/18/2013 4:46	2/18/2013 8:24	61.5	223.6	$0
Mecklenburg 2	D1	Boiler trip when reducing load to 16 MW due to a flame-out on the 2B mill	0.33	0.31	3/8/2013 3:28	3/8/2013 3:48	64.7	21.6	$0
Mecklenburg 2	D1	MFT - PA Fan trip	1.45	1.31	3/30/2013 17:38	3/30/2013 19:05	62.3	90.3	$0
Mecklenburg 2	D1	U2 PA Fan Trip	0.45	0.44	4/18/2013 1:28	4/18/2013 1:55	68.1	30.6	$0
Mecklenburg 2	U1	U2 PA Fan Trip	9.75	9.75	4/18/2013 1:55	4/18/2013 11:40	69.0	672.8	$0
Mecklenburg 2	U1	Leak on header between primary and secondary superheater.	26.62	26.62	10/23/2013 19:53	10/24/2013 22:30	69.0	1,836.6	$4
Mecklenburg 2	MO	Maintenance Outage. NERC relay testing, CEMS equipment, BEPI - superheater drains, 2A Disch MOV replacement	128.45	128.45	11/23/2013 0:00	11/28/2013 8:27	69.0	8,863.1	$163
Mt. Storm 1	D4	67581446 - Unit derated due to Turbine Valve Freedom Testing. Left Side Reheat Stop Valve will not reopen. Unit coming offline.	6.73	1.27	1/5/2013 2:02	1/5/2013 8:46	99.0	666.5	$0
Mt. Storm 1	U1	67570724 - Unit taken offline due to Left Side Reheat Stop Valve not reopening after TVFT.	18.73	18.73	1/5/2013 8:46	1/6/2013 3:30	524.0	9,816.1	($2)
Mt. Storm 1	D4	67581446 - Unit derated due to Turbine Valve Freedom Testing. Left Side Reheat Stop Valve held both limits Notification submitted.	0.73	0.14	1/10/2013 10:10	1/10/2013 10:54	99.0	72.8	$0
Mt. Storm 1	D1	67585501 - Unit derated to Boiler Circulating Water Pump tripped.	3.20	0.30	1/12/2013 22:08	1/13/2013 1:20	49.0	156.7	$1
Mt. Storm 1	D4	67586511 - Unit derated due to turbine valve freedom testing.	0.40	0.08	1/19/2013 1:08	1/19/2013 1:32	99.0	39.8	$0
Mt. Storm 1	D1	67570710 - Unit derated due to coal leak. Leak was repaired and unit released to full load.	0.33	0.03	1/27/2013 0:23	1/27/2013 0:43	44.0	14.7	$0
Mt. Storm 1	U1	67600263 - Unit taken off line due a steam leak in A Reheat Stop warm-up line.	25.62	25.62	2/15/2013 1:03	2/16/2013 2:40	524.0	13,423.3	$5
Mt. Storm 1	D1	67604285 - Unit derated due to air preheater DP increasing causing ID fan saturation	152.98	4.09	2/23/2013 11:05	3/1/2013 20:04	14.0	2,141.6	$0
Mt. Storm 1	D1	67604267604285 - Unit derated due to air preheater DP increasing causing ID fan saturation and high fan amps	3.97	0.30	3/1/2013 20:04	3/2/2013 0:02	39.0	154.6	$0
Mt. Storm 1	D4	67598562 - Unit derated due to Turbine Valve Freedom Testing. No issues or concerns noted in CRO Log.	0.73	0.14	3/2/2013 0:02	3/2/2013 0:46	99.0	72.8	$0
Mt. Storm 1	D1	67604285 - Unit derated due to air preheater DP increasing causing ID fan saturation and high fan amps	8.50	0.63	3/2/2013 0:46	3/2/2013 9:16	39.0	331.7	$0
Mt. Storm 1	D1	67604285 - Unit derated due to air preheater DP increasing causing ID fan saturation and fan amps.	29.45	3.04	3/2/2013 9:16	3/3/2013 14:43	54.0	1,590.3	$0
Mt. Storm 1	D1	67604285 - Unit derated due to air preheater DP increasing causing ID fan saturation and high fan amps	224.40	14.56	3/3/2013 14:43	3/13/2013 0:07	34.0	7,629.4	$0
Mt. Storm 1	D1	67612078 - Unit derated due to oil leak in aux oil governor pressure transmitter indication line.	0.77	0.33	3/13/2013 0:07	3/13/2013 0:53	224.0	171.9	$0
Mt. Storm 1	D1	67604285 - Unit derated due to air preheater DP increasing causing ID fan saturation and high fan amps	60.63	3.93	3/13/2013 0:53	3/15/2013 13:31	34.0	2,061.4	$0
Mt. Storm 1	D1	67604285 - Unit derated due to air preheater DP increasing causing ID fan saturation and high fan amps	60.87	6.27	3/15/2013 13:31	3/18/2013 2:23	54.0	3,287.1	$0
Mt. Storm 1	MO	67613262 - Unit taken offline due to high preheater DP and ID fan saturation.	83.18	83.18	3/18/2013 2:23	3/21/2013 13:34	524.0	43,587.9	$23
Mt. Storm 1	D1	67507155 - Unit derated due to D mill grinding zone overhaul.	15.10	0.98	3/21/2013 13:34	3/22/2013 4:40	34.0	513.5	$464
Mt. Storm 1	D1	67507155 - Unit derated due to D mill grinding zone overhaul.	75.63	2.02	3/22/2013 4:40	3/25/2013 8:18	14.0	1,059.0	$0
Mt. Storm 1	D1	67616179 - Unit derated due to primary air damper on E coal mill Broken.	3.05	0.72	3/25/2013 8:18	3/25/2013 11:21	124.0	378.3	$0
Mt. Storm 1	D1	67507155 - Unit derated due to D mill grinding zone overhaul.	24.90	0.67	3/25/2013 11:21	3/26/2013 12:15	14.0	348.5	$0
Mt. Storm 1	D1	67617196 - Unit derated due to D mill removed from service to repair leak in coal pipe.	0.73	0.03	3/26/2013 12:51	3/26/2013 13:35	24.0	[illegible]	$0

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Mt. Storm 1	MO	Preoutage work including cool down and loto for Turbine/Generator Uprate	45.50	45.50	3/30/2013 2:31	4/1/2013 0:01	524.0	23,842.0	$0
Mt. Storm 1	PO	Planned Outage for HP Turbine/Generator Uprate.	1,591.15	1,591.15	4/1/2013 0:01	6/6/2013 7:10	524.0	833,762.6	$10,234
Mt. Storm 1	U1	67645735 - Unit taken offline due to steam leak on A Crossover at IP shell	24.82	24.82	6/6/2013 9:24	6/7/2013 10:13	524.0	13,004.1	$0
Mt. Storm 1	U1	Turbine taken offline due to Overspeed trip testing and balancing.	4.17	4.17	6/9/2013 19:37	6/9/2013 23:47	524.0	2,183.5	$0
Mt. Storm 1	U1	67647727 - Unit taken offline due to suspected hydrogen leak.	53.65	53.65	6/10/2013 18:19	6/12/2013 23:58	524.0	28,112.6	$608
Mt. Storm 1	U1	Unit tripped on reverse power approximately 1 minute after coming on line.	1.42	1.42	6/12/2013 23:59	6/13/2013 1:24	524.0	742.5	$0
Mt. Storm 1	D1	67648965 - Unit derated to allow Furmanite to make injection repair on Right Side Reheat Stop Valve Leak.	0.17	0.07	6/15/2013 11:26	6/15/2013 11:36	224.0	37.2	$0
Mt. Storm 1	D1	67649369 - J2 Conveyor will not operate due to an electrical interlock issue from Q conveyor.	4.20	1.80	6/15/2013 11:36	6/15/2013 15:48	224.0	940.6	$0
Mt. Storm 1	D1	Unit derated due to HP Hot Gas Temperature Differential hi hi alarm coming in.	44.17	0.76	6/23/2013 12:28	6/25/2013 8:38	9.0	397.7	$0
Mt. Storm 1	MO	67647727 - Unit removed from service due to hydrogen leak on HP generator	164.10	164.10	6/30/2013 0:47	7/8/2013 20:53	524.0	85,988.4	$0
Mt. Storm 1	D4	Unit derated due to Turbine Valve Freedom Testing. No issues reported in CRO logs.	1.80	0.43	7/27/2013 0:27	7/27/2013 2:15	124.0	223.2	$0
Mt. Storm 1	MO	67670760- - Unit removed from service due to a boiler tube leak in the coutant bottom.	42.15	42.15	8/2/2013 1:51	8/3/2013 20:00	524.0	22,086.6	$31
Mt. Storm 1	U1	Automatic trip 30 seconds after coming on line on reverse power	2.38	2.38	8/7/2013 1:41	8/7/2013 4:04	524.0	1,248.7	$0
Mt. Storm 1	D4	Unit derated to perform Turbine Valve Freedom Testing. No issues or concerns noted in CRO logs.	0.72	0.14	8/24/2013 22:17	8/24/2013 23:00	99.0	70.7	$0
Mt. Storm 1	D4	Unit derated due to Turbine Valve Freedom Testing. No issues or concerns noted in CRO logs.	0.22	0.04	9/7/2013 1:09	9/7/2013 1:22	99.0	21.5	$0
Mt. Storm 1	D4	67689744 - Unit derated due to Turbine Valve Freedom Testing. No issues or concerns noted in CRO log.	0.90	0.18	9/20/2013 23:49	9/21/2013 0:43	104.0	93.8	$0
Mt. Storm 1	D4	67695361 - Unit derate taken for Turbine Valve Freedom Testing. No issues or concerns noted in CRO logs.	0.32	0.06	10/5/2013 0:06	10/5/2013 0:25	99.0	31.4	$0
Mt. Storm 1	D1	67675520 - Unit derated due to valve body leak.	15.90	2.06	10/21/2013 9:54	10/22/2013 1:48	68.0	1,080.0	$0
Mt. Storm 1	U1	MS1 Tripped due to a controls configuration change	0.02	0.02	10/22/2013 1:47	10/22/2013 1:48	524.0	8.9	$0
Mt. Storm 1	MO	67675520 - Unit #1 MO taken due to FW safety valve body leak. Unit tripped while being taken offline.	47.48	47.48	10/22/2013 1:48	10/24/2013 1:17	524.0	24,881.1	$0
Mt. Storm 1	U1	S1 experienced an automatic trip @ 0128 hrs on 10/24/2013 while operating at approx. 30 nMW's; the unit had came on line @ 0117 hrs (11 minutes earlier). The trip was initiated thru the BMS on HI Steam Drum Level"."	2.62	2.62	10/24/2013 1:28	10/24/2013 4:05	524.0	1,371.3	$0
Mt. Storm 1	D4	67709109 - Unit derated to perform turbine valve freedom testing. No issues or concerns noted in CRO logs.	1.12	0.26	11/9/2013 0:01	11/9/2013 1:08	129.0	144.0	$0
Mt. Storm 1	MO	67711681 - Unit taken offline due to high DP across SCR.	83.35	83.35	11/18/2013 0:09	11/21/2013 11:30	554.0	46,175.9	$22
Mt. Storm 1	D4	67717177 - Unit derated to perform Turbine Valve Freedom Checks. No issues or concerns reported in CRO log.	0.18	0.04	12/7/2013 0:34	12/7/2013 0:45	129.0	23.8	$0
Mt. Storm 1	D4	67717177 - Unit derated due to turbine valve freedom testing. No issues or concerns noted in CRO Logs.	0.23	0.05	12/21/2013 0:07	12/21/2013 0:21	129.0	29.9	$0
Mt. Storm 2	D1	Unit derated due to B feeder dropping out due to pluggage above feeder.	0.60	0.08	1/2/2013 7:38	1/2/2013 8:14	75.0	45.0	$0
Mt. Storm 2	D1	67582203 - Unit derated due to F mill internal inspection	10.00	0.72	1/4/2013 6:05	1/4/2013 16:05	40.0	400.2	$0
Mt. Storm 2	D1	Unit derated to due to low coal flow in F mill due to pluggage.	1.02	0.10	1/10/2013 20:09	1/10/2013 21:10	55.0	56.1	$0
Mt. Storm 2	MO	67576806 - Unit Maintenance Outage was requested to repair an oil leak on turbine lube piping.	102.00	102.00	1/12/2013 1:31	1/16/2013 7:31	555.0	56,610.0	$0
Mt. Storm 2	D1	67590098 - Unit derated due to 2D coal mill being removed from service due to a coal leak.	2.73	0.32	1/23/2013 16:27	1/23/2013 19:11	65.0	177.6	$0
Mt. Storm 2	D4	67583621 - Unit derated due to turbine valve freedom testing. No issue or concerns noted in CRO log.	1.37	0.38	1/26/2013 1:50	1/26/2013 3:12	155.0	212.0	$0
Mt. Storm 2	MO	67331878 - MO requested to inspect/repair 2A SST. Transformer is leaking oil at the low side bushings.	8.32	8.32	1/31/2013 6:00	1/31/2013 14:19	555.0	4,615.9	$6
Mt. Storm 2	U1	67331878 - G276M disconnect misalignment of the C phase. On the C phase the reflector and bolting disconnect did not completely engage.	31.08	31.08	1/31/2013 19:06	2/2/2013 2:11	555.0	17,251.1	$0
Mt. Storm 2	D1	67594964 - B Mill Top Pyrite Hopper Gate Broke off. Replaced gate and returned mill to service.	1.10	0.11	2/3/2013 0:14	2/3/2013 1:20	55.0	60.5	$0
Mt. Storm 2	D1	67596948 - Unit derated due to leak in B coal mill exhauster.	0.50	0.04	2/5/2013 10:53	2/5/2013 11:23	45.0	22.8	$0
Mt. Storm 2	D1	67597398 - unit derated due to mill shut down and balance shot placed in exhauster.	11.05	1.69	2/7/2013 4:43	2/7/2013 15:46	85.0	939.1	$0
Mt. Storm 2	D1	Unit derated due to fire in number 1 corner burner.	4.40	0.44	2/7/2013 16:06	2/7/2013 20:30	55.0	242.0	$0
Mt. Storm 2	D4	67598563 - Unit derated due to Turbine Valve Freedom Test and Turbine Overspeed Testing. No issues or concerns listed in CRO Log.	1.15	0.32	2/17/2013 1:31	2/17/2013 2:40	155.0	178.2	$0
Mt. Storm 2	D1	67603711 - Unit derated due to C coal mill trip.	0.88	0.14	2/21/2013 16:42	2/21/2013 17:35	87.0	76.6	$0
Mt. Storm 2	D4	67598563 - Unit derated due to Turbine Valve Freedom Checks. CRO reported Left forward throttle valve did not show closed.	1.13	0.32	3/2/2013 0:48	3/2/2013 1:56	155.0	175.9	$0
Mt. Storm 2	D1	67607189 - Unit derated due to induced draft fans running 100% and boiler going positive.	13.70	0.49	3/2/2013 5:42	3/2/2013 19:24	20.0	274.2	$0
Mt. Storm 2	U1	67607189 - Unit taken offline due boiler tube leaks.	105.28	105.28	3/2/2013 19:24	3/7/2013 4:41	555.0	58,432.1	$0
Mt. Storm 2	D1	Unit derated due to high air preheater DP. Fans Running 90% and Running 13.0 Dp on Preheaters	5.90	0.27	3/7/2013 15:02	3/7/2013 20:56	25.0	147.6	$0
Mt. Storm 2	D1	Unit derated to obstruction in F feeder. Obstruction cleared and derate lifted.	0.37	0.02	3/9/2013 0:34	3/9/2013 0:56	25.0	9.4	$0
Mt. Storm 2	D4	67606704 - Unit derated due to Turbine Valve Freedom Checks. No issues or concerns listed in CRO logs.	0.62	0.17	3/23/2013 0:00	3/23/2013 0:37	155.0	95.5	$0
Mt. Storm 2	D1	67606704 - Unit derated due to E mill loading D mill is out for repairs. Apparent cause is poor quality fuel.	0.60	0.10	3/23/2013 5:30	3/23/2013 6:06	95.0	57.2	$0
Mt. Storm 2	D1	Unit derated due to air preheater fouling. DP trending high with ID fan inlet vanes 100%.	30.15	0.27	3/25/2013 6:59	3/26/2013 13:08	5.0	151.0	$0
Mt. Storm 2	D1	67605840 - Unit derated due to ID fans running 100% with boiler pressure slightly positive.	2.40	0.02	3/28/2013 10:23	3/28/2013 12:47	5.0	12.2	$0
Mt. Storm 2	PO	67603718 - Unit taken offline due to planned outage. Major work includes SCR 1st layer catalyst change out and boiler work.	907.08	907.08	4/6/2013 0:02	5/13/2013 19:07	555.0	503,431.1	$1,558
Mt. Storm 2	D1	67636009 - LP heater drip pump stuffing box gasket leaking.	11.57	1.04	5/14/2013 4:36	5/14/2013 16:10	50.0	578.3	$0
Mt. Storm 2	D4	67642044 - Unit derated due to Turbine Valve Freedom Testing. No issues reported in CRO logs.	0.63	0.18	6/1/2013 0:08	6/1/2013 0:46	155.0	98.2	$0
Mt. Storm 2	D4	67642044 - Unit derated due to Turbine Valve Freedom Test. No issues reported in CRO Log.	0.73	0.21	6/14/2013 20:32	6/14/2013 21:16	155.0	113.8	$0
Mt. Storm 2	D1	67649369 - J2 Conveyor will not operate due to an electrical interlock issue from Q conveyor.	3.18	1.55	6/15/2013 11:33	6/15/2013 14:44	270.0	859.7	$1
Mt. Storm 2	D1	The unit was derated to match Unit #1 due to Unit Common Stack Testing.	3.70	0.13	6/21/2013 13:48	6/21/2013 17:30	20.0	16.8	$0

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2013 Power Generation Outage Report

(Fossil & Hydro)

Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2013 Dates Start	2013 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Mt. Storm 2	D1	The unit was derated to match Unit #1 during Unit Common Stack Testing.	2.32	0.13	6/21/2013 17:30	6/21/2013 19:49	30.0	69.4	$0
Mt. Storm 2	D4	67653130 - Unit derated due to Turbine Valve Freedom Testing. No issues noted in CRO logs	0.17	0.05	6/28/2013 22:28	6/28/2013 22:38	155.0	26.1	$0
Mt. Storm 2	D1	Unit derated due to Feedwater pressure dropping.	0.65	0.03	7/6/2013 20:19	7/6/2013 20:58	25.0	16.1	$0
Mt. Storm 2	D1	Unit derated due to condensor back pressure increasing.	20.60	0.19	7/9/2013 11:15	7/10/2013 7:51	5.0	103.2	$0
Mt. Storm 2	D4	67661563 - Unit derated due to Turbine Valve Freedom Testing. No issues or concerns noted in CRO Log.	0.40	0.11	7/12/2013 22:29	7/12/2013 22:53	155.0	62.2	$0
Mt. Storm 2	D1	Unit derated due to condenser tube fouling leading to increased turbine backpressure.	99.57	0.90	7/16/2013 5:45	7/20/2013 9:19	5.0	497.8	$0
Mt. Storm 2	D1	Unit derated due to condenser tube fouling leading to increased turbine backpressure.	324.07	5.84	7/23/2013 0:00	8/5/2013 12:04	10.0	3,240.6	$0
Mt. Storm 2	D4	Unit derated for Turbine Valve Freedom Testing. No concerns or issues noted.	0.55	0.14	8/3/2013 1:59	8/3/2013 2:32	145.0	79.9	$0
Mt. Storm 2	D1	Unit derated due to condenser tube fouling leading to increased turbine backpressure.	506.38	4.56	8/5/2013 12:04	8/26/2013 14:27	5.0	2,531.9	$0
Mt. Storm 2	D4	67661563 - Unit derated due to Turbine Valve Freedom Testing. No issues reported in CRO log.	0.32	0.09	8/17/2013 0:01	8/17/2013 0:20	150.0	47.7	$0
Mt. Storm 2	D4	6768113 - Unit derated due to Turbine Valve	0.25	0.07	8/30/2013 23:20	8/30/2013 23:35	155.0	38.9	$0
Mt. Storm 2	D1	67470692 - Unit derated due to fire in F mill coal piping.	29.77	1.88	9/16/2013 9:10	9/17/2013 14:56	35.0	1,041.7	$0
Mt. Storm 2	U1	67690082 - Unit taken offline due to boiler tube leaks in final superheater.	80.60	80.60	9/18/2013 16:24	9/22/2013 1:00	555.0	44,733.0	$47
Mt. Storm 2	PD	67696513 - Unit PD taken due to 2B mill tagged for exhauster bearing replacent while 2D mill out for overhaul.	13.07	3.18	10/4/2013 0:48	10/4/2013 13:52	135.0	1,763.8	$0
Mt. Storm 2	U1	67698506 MS-13-13 Unit taken offline due to a tube leak in the Final Superheat Pendants.	84.35	84.35	10/9/2013 1:25	10/12/2013 13:46	555.0	46,814.3	$22
Mt. Storm 2	D1	67700820 - Unit derated due to fire in 2A mill	6.48	1.81	10/17/2013 6:40	10/17/2013 13:09	155.0	1,005.1	$0
Mt. Storm 2	D4	67698263 - Unit derate taken for Turbine Valve Freedom Testing. No issues or concerns noted in CRO logs.	2.15	0.60	10/25/2013 0:08	10/25/2013 2:17	155.0	333.0	$0
Mt. Storm 2	D1	2E Mill Removed from Service to repair coal leak. Leak was Repaired, mill returned to service, load was restored.	1.22	0.07	10/29/2013 18:47	10/29/2013 20:00	32.0	38.9	$0
Mt. Storm 2	D4	67703650 - Unit derated to perform turbine valve freedom testing. No issues or concerns noted in CRO logs.	1.05	0.29	11/9/2013 1:47	11/9/2013 2:50	155.0	162.6	$0
Mt. Storm 2	MO	67709715 Maintenance outage due to seal trough damage.	68.98	68.98	11/12/2013 1:56	11/14/2013 22:55	555.0	38,285.6	$13
Mt. Storm 2	D4	67717178 - Unit derated due to Turbine Valve Freedom Checks. No issues or concerns noted in CRO logs.	0.77	0.21	12/7/2013 0:52	12/7/2013 1:38	155.0	118.8	$0
Mt. Storm 2	U1	67723877 - Unit taken off line due to boiler tube leaks in the final superheater	47.03	47.03	12/17/2013 12:28	12/19/2013 11:30	555.0	26,103.3	$17
Mt. Storm 3	PO	67498730 - Turbine balancing. Turbine was taken offline due to differential expansion issues.	57.13	57.13	12/31/2012 13:03	1/3/2013 9:08	520.0	29,709.2	$0
Mt. Storm 3	D1	67582756 - Unit derated due to #1 drum safety lifting and failing to reseat.	1.02	0.08	1/4/2013 3:04	1/4/2013 4:05	45.0	42.8	$12
Mt. Storm 3	U1	67582745 - Unit #3 experienced an automatic trip due to a failure of breaker 3-PA-SW-346.	126.78	126.78	1/4/2013 4:01	1/9/2013 10:48	510.0	64,659.3	$115
Mt. Storm 3	D1	67586497 - Unit derated due coal leak on A mill piping.	6.78	0.13	1/14/2013 9:16	1/14/2013 16:03	10.0	67.8	$0
Mt. Storm 3	D1	67593838 - Unit derated due to a coal leak on top of 3F mill discharge piping.	0.43	0.02	1/30/2013 11:46	1/30/2013 12:12	20.0	8.7	$0
Mt. Storm 3	D1	67390584 - Coal mill was tagged for rebuild with unexpected derate. Mill was then returned to service and MO requested.	18.43	0.72	2/3/2013 14:41	2/4/2013 9:07	20.0	368.7	$0
Mt. Storm 3	D1	Unit derated due to C feeder dropping out due to feeder chute plugging.	3.77	0.15	2/4/2013 11:57	2/4/2013 15:43	20.0	75.5	$0
Mt. Storm 3	D1	67590589 - Unit derated due to C mill rebuild.	229.45	6.75	2/5/2013 23:58	2/15/2013 13:25	15.0	3,442.0	$184
Mt. Storm 3	D4	Unit derated due to turbine valve freedom testing. CRO reported NRV 4,5,6B did not operate during the test.	1.22	0.32	2/12/2013 13:01	2/12/2013 14:14	135.0	164.2	$0
Mt. Storm 3	D1	67600779 - Unit derated due to top gate of pyrite system broken.	1.80	0.12	2/15/2013 10:48	2/15/2013 12:36	35.0	63.2	$0
Mt. Storm 3	D1	67602172 - Unit derated due level dropping in DEA Tank.	0.50	0.01	2/17/2013 9:11	2/17/2013 9:41	10.0	5.1	$0
Mt. Storm 3	U1	67609212 - Unit manually tripped due to loss of vacuum.	5.90	5.90	3/5/2013 20:47	3/6/2013 2:41	510.0	3,009.0	$8
Mt. Storm 3	D1	67609986 - Unit derated due pyrite system failure. Pyrite system repaired and derate lifted.	0.83	0.05	3/8/2013 20:31	3/8/2013 21:21	30.0	25.0	$0
Mt. Storm 3	PO	67599964 - Unit Planned Outage taken to overhaul 3B Feed Water Pump.	369.08	369.08	3/14/2013 1:35	3/29/2013 10:40	510.0	188,232.3	$194
Mt. Storm 3	U1	67618591 - Main Turbine Thrust Bearing Oil Leak	62.05	62.05	3/29/2013 16:25	4/1/2013 6:28	510.0	31,645.5	$20
Mt. Storm 3	U1	67621195 - Unit removed from service due to a tube leak in the coulant bottom.	58.47	58.47	4/10/2013 0:00	4/12/2013 10:28	510.0	29,818.2	$9
Mt. Storm 3	D1	Unit derated due to F mill being removed from service for repairs on F pyrite hopper top gate.	1.58	0.19	4/14/2013 19:04	4/14/2013 20:39	60.0	94.9	$0
Mt. Storm 3	U1	6762955 - Relay Protection group were performing trip protection checks on the #2 500KV Bus which was out of service and they inadvertently got on the #1 500KV Bus protection tripping that bus which caused a loss of all reserve, isolating the station cusing a blackout.	24.38	24.38	4/26/2013 14:57	4/27/2013 15:20	510.0	12,435.3	$19
Mt. Storm 3	U1	67626240 - The unit experienced a Master Fuel TTrip initiated from the BMS on Unit Flame Failure due to Master Fuel Trip initiated from the BMS on Unit Flame Failure.	5.92	5.92	4/28/2013 13:40	4/28/2013 19:35	510.0	3,017.7	$4
Mt. Storm 3	MO	Unit taken offline to verify phasing of the Normal Station Service Busses 3B1 and 3B2.	7.95	7.95	5/18/2013 1:52	5/18/2013 9:49	520.0	4,134.0	$0
Mt. Storm 3	MO	Unit taken offline to verify phasing of the Normal Station Service Busses 3B1 and 3B2.	2.32	2.32	5/18/2013 10:49	5/18/2013 13:08	520.0	1,204.8	$0
Mt. Storm 3	D1	Failed Summer 2013 Capacity Test.	1,608.00	9.47	6/1/2013 0:00	8/7/2013 0:00	3.1	4,978.6	$0
Mt. Storm 3	D1	67649369 - J2 Conveyor will not operate due to an electrical interlock issue from Q conveyor.	2.60	1.10	6/15/2013 11:36	6/15/2013 14:12	222.9	579.7	$0
Mt. Storm 3	D1	Unit derated due to In fans being In Saturation and A ID fan coming Into Hi Amp Alarm.	0.57	0.03	6/15/2013 15:41	6/15/2013 16:15	22.9	13.2	$0
Mt. Storm 3	D1	Unit derated due to air preheater DP and ID fans running in saturation.	65.10	0.98	6/17/2013 14:24	6/20/2013 7:30	7.9	514.4	$0
Mt. Storm 3	D1	67648410 - Unit derated due to fans running in saturation due to excessive air preheater DP.	1.13	0.07	6/23/2013 12:28	6/23/2013 13:36	32.9	37.3	$0
Mt. Storm 3	D1	67648410 - Unit derated due to fans running in saturation due to excessive air preheater DP.	375.85	9.22	6/27/2013 8:39	7/13/2013 0:30	12.9	4,848.7	$0
Mt. Storm 3	D4	67661604 - Unit Derated due to turbine valve freedom testing. Testing completed and unit returned to MOC.	2.28	0.65	7/12/2013 23:28	7/13/2013 1:45	150.0	342.4	$0
Mt. Storm 3	D1	Unit derated due to air preheater pluggage.	223.77	5.44	7/13/2013 1:45	7/22/2013 9:31	12.9	2,861.4	$0
Mt. Storm 3	U1	67663730 - Unit experienced an automatic trip due to loss of flame vote in BMS.	1.97	1.97	7/16/2013 5:05	7/16/2013 7:03	526.0	1,034.6	$0
Mt. Storm 3	D1	Unit derated due to air preheater pluggage.	545.50	9.23	7/22/2013 9:31	8/14/2013 3:01	8.9	4,855.0	$0
Mt. Storm 3	D4	Unit derated due to Turbine Valve Freedom Testing. Testing Completed and unit returned to MOC.	1.75	0.51	7/23/2013 0:00	7/23/2013 1:45	154.0	269.3	$0
Mt. Storm 3	MO	67648410 - Unit MO taken to wash air preheater.	98.27	98.27	8/15/2013 6:00	8/19/2013 8:16	526.0	51,688.4	$0

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2013 Power Generation Outage Report
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Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2013 Dates Start	2013 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Mt. Storm 3	D1	Unit derated due to ID fan saturation and positive boiler pressure.	113.57	3.44	8/19/2013 7:52	8/24/2013 1:26	16.0	1,810.5	$0
Mt. Storm 3	MO	67678157 - Unit taken offline for maintenance outage due to a water wall tube leak.	31.82	31.82	8/24/2013 1:26	8/25/2013 9:15	526.0	16,735.7	$28
Mt. Storm 3	D1	Unit derated due to ID fan saturation and positive boiler pressure	622.20	19.09	8/26/2013 2:32	9/21/2013 0:44	16.0	10,043.4	$0
Mt. Storm 3	D4	67687407 - Unit derated due to Turbine Valve Freedom Testing. No issues or concerns noted in CRO logs.	1.20	0.37	9/21/2013 0:44	9/21/2013 1:56	160.0	191.9	$0
Mt. Storm 3	D1	Unit derated due to ID fan saturation and positive boiler pressure.This is due to high DP across first layer of SCR catalyst.	334.08	6.43	9/21/2013 1:56	10/5/2013 0:01	10.0	3,341.0	$0
Mt. Storm 3	MO	WBS 992270.V7S - Unit Maintenance outage taken for LOTO prior to planned outage for switchyard upgrade.	48.00	48.00	10/5/2013 0:01	10/7/2013 0:01	520.0	24,960.0	$0
Mt. Storm 3	PO	WBS 992270.V7S - Unit planned outage taken for switchyard upgrade.	707.45	707.45	10/7/2013 0:01	11/5/2013 10:28	520.0	367,874.0	$607
Mt. Storm 3	U1	MS3 was tripped manually by the Control Room Operator due to the unit becoming unstable due to the loss of the 3A2 4160 v BUS and equipment associated with that BUS.	9.82	9.82	11/9/2013 17:39	11/10/2013 3:28	520.0	5,104.8	$0
Mt. Storm 3	D1	67711893 - Unit was derated due to 1 penetration in mainsteam header piping leaking."	13.68	3.50	11/13/2013 21:38	11/14/2013 11:19	133.0	1,820.0	$23
Mt. Storm 3	U1	67711893 - Unit taken offline due to main steam piping leak.	61.33	61.33	11/14/2013 11:19	11/17/2013 0:39	520.0	31,893.2	$0
Mt. Storm 3	U1	67719910 - Unit taken offline to replace air ejector safety valve. Valve failed and lifted prematurely.	13.15	13.15	12/7/2013 1:52	12/7/2013 15:01	520.0	6,838.0	$3
Mt. Storm 3	D1	67721809 - Unit derated due to issues with B and A coal mills.	34.05	3.93	12/12/2013 0:55	12/13/2013 10:58	60.0	2,043.1	$33
Mt. Storm 3	D1	67724541 - 2nd point feedwater heater safety valve 3-HD-SV-50 leaking through	39.12	2.63	12/19/2013 16:17	12/21/2013 7:24	35.0	1,369.2	$15
Mt. Storm 3	D1	67724509 - B" boiler feed pump lube oil cooler leaking oil"	39.12	1.50	12/19/2013 16:17	12/21/2013 7:24	20.0	782.1	$1
Mt. Storm 3	D1	67722778 - Unit 3 A" cooling tower fan tripped"	17.47	3.86	12/20/2013 22:32	12/21/2013 16:00	115.0	2,008.8	$24
Mt. Storm 3	U1	67727552 - Unit was removed from service due to fire in 3D Mill end A2 Burner Corner.	35.37	35.37	12/30/2013 12:38	1/3/2014 4:17	520.0	18,390.8	$4
Mt. Storm CT1	U1	67655207 - Unit taken offline and declared unavailable due to a fuel oil reserve tank overfilling.	46.13	46.13	7/10/2013 15:21	7/12/2013 13:29	11.0	507.5	$0
Mt. Storm CT1	SF	CT Tripped during start-up	0.38	0.38	7/25/2013 8:58	7/25/2013 9:21	11.0	4.2	$0
Mt. Storm CT1	MO	Unit MO taken due to BUSS 2 outage in the switchyard.	646.73	646.73	10/9/2013 12:01	11/5/2013 9:45	11.0	7,114.1	$0
Mt. Storm CT1	SF	Ct would not start due to turbine tripping on low oil pressure. Found oil pressure sensor out of calibration.	10.00	10.00	12/31/2013 14:00	1/2/2014 9:46	11.0	110.0	$0
Northern Neck CT1	MO	67613986 - TRANSFORMER #2 BUSHING	30.05	30.05	4/3/2013 8:20	4/4/2013 14:23	12.0	360.6	$1
Northern Neck CT1	MO	67608937 - ANNUAL BLACK START TESTING	2.58	2.58	4/30/2013 7:00	4/30/2013 9:35	12.0	31.0	$0
Northern Neck CT1	MO	67597657 - PM STARTING DIESEL MOTOR OIL CHANGE	2.92	2.92	11/4/2013 8:30	11/4/2013 11:25	12.0	35.0	$0
Northern Neck CT2	MO	67613986 - TRANSFORMER #2 BUSHING INSPECTION/TESTING	30.05	30.05	4/3/2013 8:20	4/4/2013 14:23	12.0	360.6	$1
Northern Neck CT2	MO	67608937 - ANNUAL BLACK START TESTING	2.58	2.58	4/30/2013 7:00	4/30/2013 9:35	12.0	31.0	$0
Northern Neck CT2	U1	67688914 - TRIP ON HIGH VIBRATION	0.28	0.28	9/11/2013 13:43	9/11/2013 14:00	12.0	3.4	$0
Northern Neck CT3	MO	67613986 - #3 TRANSFORMER BUSHING REPLACEMENT	361.48	361.48	3/17/2013 14:01	4/1/2013 15:30	12.0	4,337.8	$1
Northern Neck CT3	MO	67608937 - ANNUAL BLACK START TESTING	2.58	2.58	4/30/2013 7:00	4/30/2013 9:35	12.0	31.0	$0
Northern Neck CT4	MO	67613986 - #3 TRANSFORMER BUSHING REPLACEMENT	361.48	361.48	3/17/2013 14:01	4/1/2013 15:30	11.0	3,976.3	$1
Northern Neck CT4	MO	67608937 - ANNUAL BLACK START TESTING	2.58	2.58	4/30/2013 7:00	4/30/2013 9:35	11.0	28.4	$0
Pittsylvania 1	U1	Found 3 cracks in 370 psi steam header	12.03	12.03	12/28/2012 11:03	1/1/2013 12:02	83.0	998.7	$0
Pittsylvania 1	D1	Derated due to wet wood	0.72	0.20	1/17/2013 20:32	1/17/2013 21:15	23.0	16.5	$0
Pittsylvania 1	D1	Derated to 30 MW's due to extremely wet fuel	3.60	2.30	1/17/2013 21:15	1/18/2013 0:51	53.0	190.8	$0
Pittsylvania 1	D1	station derated to 45 MW's due to wet fuel	4.43	2.03	1/18/2013 0:51	1/18/2013 5:17	38.0	168.5	$0
Pittsylvania 1	D1	Derated to 60 MW's due to wet fuel	0.77	0.21	1/18/2013 5:17	1/18/2013 6:03	23.0	17.6	$0
Pittsylvania 1	D1	Station derated due to plugged wood overflow chute on boiler #1 causing boiler to trip off line WO#67592193	1.70	1.09	1/25/2013 17:53	1/25/2013 19:35	53.0	90.1	$0
Pittsylvania 1	D1	Derate due to Loss of fuel to boiler 2 due to pluggage at splitter box	0.90	0.58	2/1/2013 7:42	2/1/2013 8:36	53.0	47.7	$0
Pittsylvania 1	D1	Derate due to loss of fuel to boiler 2 caused by splitter box pluggage	1.08	0.69	2/2/2013 6:40	2/2/2013 7:45	53.0	57.4	$0
Pittsylvania 1	D1	Derate due to reclaim screw #1 out of service resulting in reduced fuel flow to all boilers	1.63	0.45	2/2/2013 8:40	2/2/2013 10:18	23.0	37.6	$0
Pittsylvania 1	D1	Station derated due to 1 reclaim screw out of service and wood bridging over the other screw	0.22	0.05	2/20/2013 10:10	2/20/2013 10:23	18.0	3.9	$4
Pittsylvania 1	D1	Derate to 60 MW due to wet fuel causing poor combustion	6.48	1.80	3/6/2013 0:27	3/6/2013 6:56	23.0	149.2	$0
Pittsylvania 1	D1	Derate to 72 MW due to wet fuel	5.08	0.67	3/6/2013 6:56	3/6/2013 12:01	11.0	55.9	$0
Pittsylvania 1	D1	Derate to 72 MW due to wet fuel	4.33	0.57	3/6/2013 12:39	3/6/2013 16:59	11.0	47.6	$0
Pittsylvania 1	U1	Forced outage due to DCS remote terminal power supply failure WO#67610805	7.08	7.08	3/7/2013 22:39	3/8/2013 5:44	83.0	587.9	$0
Pittsylvania 1	U1	Station declared forced outage due to cracks in the 370 header WO#67613177	75.23	75.23	3/17/2013 11:46	3/20/2013 15:00	83.0	6,244.3	$39
Pittsylvania 1	PO	Planned outage Major turbine overhaul TG#1 and rebuild all 3 ESP's	1,005.07	1,005.07	3/23/2013 1:05	5/3/2013 22:09	83.0	83,420.6	$3,237
Pittsylvania 1	PD	Unit performing post outage testing of trips and controls following DCS replacement and Turbine overhaul	0.53	0.42	5/3/2013 22:09	5/3/2013 22:41	65.0	34.7	$0
Pittsylvania 1	PO	Returned to Planned outage following turbine trip testing	0.23	0.23	5/3/2013 22:41	5/3/2013 22:55	83.0	19.3	$0
Pittsylvania 1	PD	Online for additional post outage testing following DCS replacement and Turbine rebuilds	2.12	1.35	5/3/2013 22:55	5/4/2013 1:02	53.0	112.2	$0
Pittsylvania 1	PO	Returned to planned outage to troubleshoot DCS controls	0.57	0.57	5/4/2013 1:02	5/4/2013 1:36	83.0	47.1	$0
Pittsylvania 1	PD	Online to test DCS controls.	0.80	0.51	5/4/2013 1:36	5/4/2013 2:24	53.0	42.4	$0
Pittsylvania 1	PO	Returned to outage following DCS testing/Tuning to make changes to logic on new DCS	16.02	16.02	5/4/2013 2:24	5/4/2013 18:25	83.0	1,329.4	$0
Pittsylvania 1	PD	Bringing plant online to check DCS logic changes on new DCS system	15.22	9.72	5/4/2013 18:25	5/5/2013 9:38	53.0	806.5	$0
Pittsylvania 1	PD	Changed available capacity from 30 to 55 MW. Will perform testing and tuning at 55 MW's	14.17	4.78	5/5/2013 9:38	5/5/2013 23:48	28.0	396.7	$0
Pittsylvania 1	D1	Plant unable to maintain header pressure at loads above 65MW	14.02	3.04	5/5/2013 23:48	5/6/2013 13:49	18.0	252.3	$0
Pittsylvania 1	D1	Station derated to 65 mW's due to extremely wet fuel	4.03	0.88	5/7/2013 13:41	5/7/2013 17:43	18.0	72.6	$0
Pittsylvania 1	U1	Forced outage due to crack in 370 PSIG steam header WO# 67633492	55.72	55.72	5/8/2013 16:16	5/10/2013 23:59	83.0	4,624.5	$30

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Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2013 Dates Start	2013 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Pittsylvania 1	MO	Maintenance Outage to inspect 28 welds on 370 PSIG auxiliary steam header.	111.18	111.18	5/10/2013 23:59	5/15/2013 15:10	83.0	9,228.2	$0
Pittsylvania 1	PD	Testing of 370 PSIG auxillary steam header controls after maintenance outage	8.82	3.51	5/15/2013 15:10	5/15/2013 23:59	33.0	290.9	$0
Pittsylvania 1	D1	Derate due to poor control of 370 PSIG Steam Header temperature	14.45	5.75	5/15/2013 23:59	5/16/2013 14:26	33.0	476.8	$0
Pittsylvania 1	PD	Plant in planned derate due to high NOx numbers associated with sustained full load operations	5.43	0.52	5/30/2013 0:04	5/30/2013 5:30	8.0	43.5	$0
Pittsylvania 1	PD	Station in planned derate to reduce NOx emissions	23.97	2.31	5/31/2013 0:01	5/31/2013 23:59	8.0	191.7	$0
Pittsylvania 1	U1	Station declared forced outage due tp crack in attemerating line to 370 psig header WO#67643428	52.83	52.83	6/2/2013 10:35	6/4/2013 15:25	83.0	4,385.1	$6
Pittsylvania 1	D1	Station derate to 75 MW's due to poor fuel quality and wet fuel	3.75	0.36	6/8/2013 15:30	6/8/2013 19:15	8.0	30.0	$0
Pittsylvania 1	D1	Adjusted derate from 75 MW available to 68 MW available due to fuel quality issues	19.23	3.48	6/8/2013 19:15	6/9/2013 14:29	15.0	288.5	$0
Pittsylvania 1	MO	Maintenance outage for 370 spray control valve repair WO#67639449	8.87	8.87	6/16/2013 6:00	6/16/2013 14:52	83.0	736.0	$3
Pittsylvania 1	U1	Plant tripped following a loss of fuel to boiler #1 and resulting high drum levels	4.98	4.98	6/24/2013 13:15	6/24/2013 18:14	83.0	413.6	$0
Pittsylvania 1	D1	Station derated to 35 MW's due to erratic operation of gland seal regulator on TG#1 following plant trip	1.17	0.68	6/24/2013 19:22	6/24/2013 20:32	48.0	56.0	$0
Pittsylvania 1	D1	Changed derate from 35 MW's to 40 MW's. Still working on gland seal for TG#1	0.20	0.10	6/24/2013 20:32	6/24/2013 20:44	43.0	8.6	$0
Pittsylvania 1	D1	Changed derate capacity to 39 MW's. Can't maintain steam header pressure above 39 MW's	7.85	4.16	6/24/2013 20:44	6/25/2013 4:35	44.0	345.4	$0
Pittsylvania 1	MO	Maintenance outage to disassemble and inspect straininer in TG@ stop valve	13.00	13.00	6/30/2013 7:00	6/30/2013 20:00	83.0	1,079.0	$19
Pittsylvania 1	D1	Wet fuel lead to piling on grates Caused derate to 65 MW's until grates were cleaned	6.78	1.47	7/3/2013 13:55	7/3/2013 20:42	18.0	122.1	$0
Pittsylvania 1	PD	Station scheduled planned derate to repair tube leak on boiler #1	10.57	4.84	7/26/2013 6:00	7/26/2013 16:34	38.0	401.6	$7
Pittsylvania 1	D1	Station derated to 45MW's due to loss of fuel to boiler #1	0.25	0.11	8/12/2013 21:10	8/12/2013 21:25	38.0	9.5	$0
Pittsylvania 1	U1	TG's tripped on high drum level following trip of boiler #1 due to loss of fuel feed	8.37	8.37	8/12/2013 21:25	8/13/2013 5:47	83.0	694.5	$0
Pittsylvania 1	D1	Station was returning from plant rip and feedwater pump and drum level controls were not responding correctly	2.55	1.63	8/13/2013 5:47	8/13/2013 8:20	53.0	135.1	$0
Pittsylvania 1	D1	Significant oil leak on #2 feed pump. Standby pump started, but had problems with trip coil. WO#67677516	9.30	5.94	8/19/2013 13:29	8/19/2013 22:47	53.0	492.9	$8
Pittsylvania 1	D1	Feed pump #3 tripped and would not relatch. the standby pump is already out of service due oil leak. WO#67678054	1.28	0.82	8/20/2013 21:23	8/20/2013 22:40	53.0	68.0	$3
Pittsylvania 1	D1	Plant dispatched to be at 80 MW's by 0900 - reached 80 MW's at 1030 due to TG2 reset issues. Synchronized on time with 1 TG	1.50	0.78	9/27/2013 9:00	9/27/2013 10:30	43.0	64.5	$0
Pittsylvania 1	D1	TG#1 tripped. No actual cause found.	1.58	0.82	10/1/2013 5:17	10/1/2013 6:52	43.0	68.1	$0
Pittsylvania 1	D1	Discovered tube leak in boiler #1 floor tube WO#67696302	39.40	20.41	10/3/2013 3:05	10/4/2013 18:29	43.0	1,694.2	$8
Pittsylvania 1	D1	Station derated to 45 MW's due to trip of boiler 1 due to plugged feeder chute	2.75	1.26	10/9/2013 4:50	10/9/2013 7:35	38.0	104.5	$0
Pittsylvania 1	D1	Boiler #1 tripped due to plugged wood feed chute resulting in derate to 45 MW's	1.73	0.79	10/10/2013 0:00	10/10/2013 1:44	38.0	65.9	$0
Pittsylvania 1	D1	#1 TG tripped for no apparent reason resulting in derate to 38 MW's	5.10	2.77	10/10/2013 1:44	10/10/2013 6:50	45.0	229.5	$0
Pittsylvania 1	D1	Station derated to 40 MW's due to trip of TG#1 -no reason found	1.02	0.53	10/18/2013 5:30	10/18/2013 6:31	43.0	43.7	$0
Pittsylvania 1	D1	Derated to 38 MW's due to trip of TG1 _ found faulty condensate drain tank high level switch WO#67701894	39.77	21.56	10/18/2013 6:44	10/19/2013 22:30	45.0	1,789.5	$13
Pittsylvania 1	PD	Station derated to 40 MW's to perform boiler and superheater safety valve testing WO#67699811	4.78	2.48	10/22/2013 7:00	10/22/2013 11:47	43.0	205.7	$44
Pittsylvania 1	PO	Planned outage to upgrade station circuit breaker and other switchyard components.	383.93	383.93	10/26/2013 0:50	11/10/2013 23:46	83.0	31,866.4	$266
Pittsylvania 1	U1	Station could not come on line due to no 115KV or Net MW reading at the station - Outside management control	15.05	15.05	11/12/2013 1:12	11/12/2013 16:15	83.0	1,249.2	$0
Pittsylvania 1	D1	Station derated to 38 MW's due to vibration issues on TG 2	5.25	2.85	11/13/2013 4:17	11/13/2013 9:32	45.0	236.2	$0
Pittsylvania 1	D4	Planned derate to 45 MW's due to high vibrations on #2 ID fan WO# 67712421	40.98	18.76	11/22/2013 7:00	11/23/2013 23:59	38.0	1,557.3	$50
Pittsylvania 1	D1	Tube leak in boiler #2	10.27	4.70	11/24/2013 0:00	11/24/2013 10:16	38.0	390.1	$6
Pittsylvania 1	D4	Tear in wood conveyor belt 3 where splice is located. Required shutting down boiler 1.	9.97	4.56	11/26/2013 10:00	11/26/2013 19:58	38.0	378.7	$2
Pittsylvania 1	D1	Boiler 2's fuel distribution box plugged up from sticks in fuel.	3.90	2.49	11/28/2013 4:20	11/28/2013 8:14	53.0	206.7	$0
Pittsylvania 1	D1	Derate to 30 MWs from fuel plug in distribution box feeding boiler 1.	1.55	0.99	12/2/2013 10:52	12/2/2013 12:25	53.0	82.2	$0
Pittsylvania 1	D1	Boiler Feed Pump 3 Tripped on Digital Overspeed and we were unable to maintain proper drum levels.	0.30	0.19	12/5/2013 16:20	12/5/2013 16:38	53.0	15.9	$0
Pittsylvania 1	U1	Boiler Feed Pump 3 Tripped on Digital Overspeed and we were unable to maintain proper drum levels.	1.42	1.42	12/5/2013 16:39	12/5/2013 18:04	83.0	117.6	$0
Pittsylvania 1	D1	Derated due to opacity spikes caused by precipitator fields out of service	1.93	0.54	12/19/2013 19:27	12/19/2013 21:23	23.0	44.5	$0
Pittsylvania 1	D1	Derate changed from 60 MW's to 40 MW's to allow control of opacity following precip fields tripping	4.62	2.39	12/19/2013 21:23	12/20/2013 2:00	43.0	198.5	$0
Pittsylvania 1	D1	Boiler 3's ID Fan Tripped due to Ground Fault resulting in boiler 3 being removed from service.	10.35	5.36	12/29/2013 9:29	12/29/2013 19:50	43.0	445.0	$16
Possum Point 3	MO	PP3 on Maintenance Outage for Gas Pipeline Maintenance	70.70	70.70	3/15/2013 0:01	3/17/2013 22:43	96.0	6,787.2	$0
Possum Point 3	MO	PP3 on Maintenance Outage for Condenser Cleaning.	47.97	47.97	5/6/2013 0:01	5/7/2013 23:59	96.0	4,604.8	$29
Possum Point 3	MO	PP3 on Maintenance Outage for Boiler Tube Leak Repairs	56.53	56.53	6/5/2013 6:30	6/7/2013 15:02	96.0	5,427.2	$0
Possum Point 3	U1	PP3 on Unplanned Forced Outage for Gas Pipeline Maintenance.	13.52	13.52	7/2/2013 10:00	7/2/2013 23:31	96.0	1,297.6	$0
Possum Point 3	MO	PP3 on Maintenance Outage for Reheat Stop Valve Inspection	287.77	287.77	7/26/2013 0:01	8/6/2013 23:47	96.0	27,625.6	$8
Possum Point 3	U1	PP3 on Unplanned Forced Outage due to Air Ejector Tube Leak	13.62	13.62	10/1/2013 9:25	10/1/2013 23:02	96.0	1,307.2	$1
Possum Point 3	MO	PP3 on Maintenance Outage for Air Ejector and Boiler Maintenance.	449.48	449.48	10/28/2013 0:01	11/15/2013 16:30	96.0	43,150.4	$1
Possum Point 4	MO	PP4 on Maintenance Outage for Gas Pipeline Maintenance	70.70	70.70	3/15/2013 0:01	3/17/2013 22:43	220.0	15,554.0	$0
Possum Point 4	MO	PP4 on Maintenance Outage for Condenser Cleaning	95.97	95.97	5/6/2013 0:01	5/9/2013 23:59	220.0	21,112.7	$1
Possum Point 4	ME	PP4 on Maintenance Outage Extension for Condenser Cleaning	24.00	24.00	5/9/2013 23:59	5/10/2013 23:59	220.0	5,280.0	$0
Possum Point 4	D1	PP4 on Unplanned Derating for Chemistry Hold.	25.43	9.25	5/21/2013 7:07	5/22/2013 8:33	80.0	2,034.6	$0
Possum Point 4	MO	PP4 on Maintenance Outage for Boiler Tube Leak Repairs.	51.02	51.02	5/24/2013 12:00	5/26/2013 15:01	220.0	11,223.7	$3
Possum Point 4	U1	PP4 on Unplanned Forced Outage for Gas Pipeline Maintenance.	13.52	13.52	7/2/2013 10:00	7/2/2013 23:31	220.0	2,973.7	$0
Possum Point 4	U1	PP4 on Unplanned Forced Outage due to Natural Gas Trip Valve # 1	7.15	7.15	7/16/2013 0:48	7/16/2013 7:57	220.0	1,573.0	$0

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Possum Point 4	D1	PP4 on Unplanned Forced Derating due to Boiler Tube Leak	1.67	0.23	7/17/2013 9:34	7/17/2013 11:14	30.0	49.9	$0
Possum Point 4	U1	PP4 on Unplanned Forced Outage due to Boiler Tube Leak	31.77	31.77	7/17/2013 11:14	7/18/2013 19:00	220.0	6,988.7	$0
Possum Point 4	D1	PP4 on Unplanned Forced Derating for Condenser Backpressure	81.93	20.48	7/19/2013 14:20	7/23/2013 0:16	55.0	4,506.3	$0
Possum Point 4	D1	PP4 on Unplanned Forced Derating for Condenser Backpressure	18.73	2.98	7/23/2013 0:16	7/23/2013 19:00	35.0	655.8	$0
Possum Point 4	D1	PP4 on Unplanned Forced Derating for Condenser Backpressure	28.88	1.97	7/23/2013 19:00	7/24/2013 23:53	15.0	433.2	$11
Possum Point 4	MO	PP4 on Maintenance Outage to address air inleakage issues	119.73	119.73	7/29/2013 0:01	8/2/2013 23:45	220.0	26,341.3	$21
Possum Point 4	U1	PP4 on Unplanned Forced Outage for Boiler Tube Leak	34.53	34.53	8/9/2013 10:30	8/10/2013 21:02	220.0	7,597.3	$5
Possum Point 4	MO	PP4 on Maintenance Outage for Boiler Tube Leak	143.48	143.48	8/11/2013 0:01	8/16/2013 23:30	220.0	31,566.3	$57
Possum Point 4	MO	PP4 on Maintenance Outage for Boiler License Inspection.	17.40	17.40	11/6/2013 0:01	11/6/2013 17:25	220.0	3,828.0	$1
Possum Point 4	MO	PP4 on Maintenance Outage due to 480 Volts Switchgear and Transformer Testing	65.38	65.38	12/9/2013 0:01	12/11/2013 17:24	220.0	14,384.3	$0
Possum Point 5	D1	Failed Winter Capacity Test	3,623.00	97.69	12/1/2012 0:00	6/1/2013 0:00	31.4	76,781.2	$0
Possum Point 5	MO	PP5 on MO for Heavy Oil System Leak Repairs	81.63	81.63	2/19/2013 11:00	2/22/2013 20:38	786.0	64,163.5	$9
Possum Point 5	PO	PP5 on a Planned Outage for Boiler and BOP Maintenance.	671.97	671.97	4/14/2013 0:01	5/11/2013 23:59	786.0	528,166.1	$572
Possum Point 5	PE	PP5 on Planned Outage Extension due to increased work scope.	424.13	424.13	5/11/2013 23:59	5/29/2013 16:07	786.0	333,368.5	$0
Possum Point 5	D1	Forced derate due to induced draft fan failure.	5.47	1.29	6/20/2013 11:32	6/20/2013 17:00	186.0	1,017.1	$13
Possum Point 5	MO	PP5 on Maintenance Outage for Induced Draft Fan Motor Inspections	102.98	102.98	6/20/2013 17:00	6/24/2013 23:59	786.0	80,944.6	$0
Possum Point 5	ME	PP5 on Maintenance Outage Extension to Replace A" Induced Draft Fan Motor"	47.52	47.52	6/24/2013 23:59	6/26/2013 23:30	786.0	37,348.4	$0
Possum Point 5	MO	PP5 on Maintenance Outage for bearing cooling water piping repair	70.28	70.28	7/10/2013 1:42	7/12/2013 23:59	786.0	55,242.4	$5
Possum Point 5	ME	PP5 on Maintenance Outage Extension for bearing cooling water line repair	24.00	24.00	7/12/2013 23:59	7/13/2013 23:59	786.0	18,864.0	$0
Possum Point 5	U1	PP5 in Unplanned Forced Outage for Duct Work Leak	64.58	64.58	7/16/2013 21:35	7/19/2013 14:10	786.0	50,762.2	$4
Possum Point 5	MO	PP5 on Maintenance Outage for Gas Recirculation Fan Expansion Joint	160.85	160.85	7/20/2013 0:01	7/26/2013 16:52	786.0	126,428.1	$3
Possum Point 5	MO	PP5 on Maintenance Outage for Pre-Outage Duct Inspection.	71.97	71.97	10/29/2013 0:01	10/31/2013 23:59	786.0	56,566.1	$0
Possum Point 5	PO	PP5 on Planned Outage for Gas Recirculation Outlet Duct Replacement.	837.82	837.82	11/16/2013 0:01	12/20/2013 21:50	786.0	658,524.2	$0
Possum Point 6	D3	PP6A Derated due to the Inlet Bleed Heat Valve Displaying Erratic Feedback.	0.83	0.21	1/30/2013 9:33	1/30/2013 10:23	139.0	115.7	$0
Possum Point 6	D4	PP6 Maintenance Derate for Offline Water Wash	16.77	8.31	3/8/2013 1:59	3/8/2013 18:45	277.0	4,644.2	$0
Possum Point 6	U1	PP6B CT and PP6 Steam Turbine Forced Outage due to Personnel Error	0.55	0.55	3/8/2013 22:47	3/8/2013 23:20	559.0	307.5	$0
Possum Point 6	PO	PP6 on Planned Outage-Spring 2013	376.43	376.43	3/9/2013 0:01	3/24/2013 17:27	559.0	210,426.0	$907
Possum Point 6	D1	PP6A Unplanned Derate due to Generator Breaker	11.93	5.76	3/25/2013 3:41	3/25/2013 15:37	270.0	3,222.1	$0
Possum Point 6	D4	PP6 B on Maintenance Derating for Compressor Offline Water Wash.	22.12	13.02	5/25/2013 0:24	5/25/2013 22:31	329.0	7,276.5	$0
Possum Point 6	D4	PP6 A on Maintenance Derating for Compressor Offline Water Wash.	17.53	10.32	5/26/2013 0:12	5/26/2013 17:44	329.0	5,768.3	$0
Possum Point 6	D1	PP6 A on Unplanned Derating due to Personnel Error.	2.32	1.30	5/27/2013 9:13	5/27/2013 11:32	314.0	727.3	$0
Possum Point 6	D1	PP6 on Unplanned Derating due to Fire System Release	5.33	2.76	6/2/2013 1:54	6/2/2013 7:14	289.0	1,541.2	$0
Possum Point 6	D4	Planned Derating due to Steam Turbine Voltage Regulator Repair	2.57	1.17	6/14/2013 5:00	6/14/2013 7:34	254.0	651.8	$0
Possum Point 6	D4	PP6 on Planned Derating due to Liquid Fuel System Combustion System Repair	51.35	27.19	6/28/2013 0:51	6/30/2013 4:12	296.0	15,199.8	$0
Possum Point 6	D4	PP6 on Planned Derating due to Liquid Fuel System Combustion System Repair	33.00	17.06	6/30/2013 5:30	7/1/2013 14:30	289.0	9,537.1	$42
Possum Point 6	MO	PP6 on Maintenance Outage for Offline Compressor Wash	16.52	16.52	7/2/2013 0:23	7/2/2013 16:54	559.0	9,233.0	$0
Possum Point 6	D1	PP6 A in Unplanned Forced Derating for High Pressure Steam Bypass Valve	0.35	0.18	7/3/2013 5:14	7/3/2013 5:35	279.0	97.8	$0
Possum Point 6	D4	Unit 6A Combustion Turbine on Maintenance Derating for Compressor Offline Water Wash	15.00	7.41	10/11/2013 0:37	10/11/2013 15:37	276.0	4,140.0	$0
Possum Point 6	PO	Unit 6 on Fall 2013 Planned Outage, Boroscope Inspections and Steam Valve Maintenance.	382.07	382.07	10/12/2013 0:26	10/27/2013 22:30	559.0	213,575.5	$1,011
Possum Point 6	D1	PP6 A and Steam Turbine on Unplanned (Forced) Derating due to Steam Turbine Generator Breaker.	39.35	33.37	10/28/2013 1:59	10/29/2013 17:20	474.0	18,652.2	$0
Possum Point 6	U1	PP6 on Unplanned (Forced) Outage due to High Hot Reheat Steam temperature.	0.22	0.22	10/29/2013 17:20	10/29/2013 17:33	559.0	121.3	$0
Possum Point 6	D2	PP6 B and Steam Turbine on Unplanned (Forced) Derating due to Steam Turbine Temperatures.	6.47	5.52	10/29/2013 17:33	10/30/2013 0:01	477.0	3,084.6	$0
Possum Point 6	MO	PP6 on Maintenance Outage due to temperature differential.	6.52	6.52	10/30/2013 0:01	10/30/2013 6:32	559.0	3,643.0	$0
Possum Point 6	U1	PP6 on Unplanned (Forced) Outage due to cooling for the Voltage Regulator Module.	5.28	5.28	11/3/2013 10:32	11/3/2013 15:49	559.0	2,953.2	$0
Possum Point 6	D1	PP6 Steam Turbine on Unplanned Derating due to Electrohydraulic Leak	6.17	2.64	11/5/2013 12:02	11/5/2013 18:12	239.0	1,474.1	$0
Possum Point 6	D1	PP6 Derated due to 6B Duct Burners Gas Valve.	1.58	0.03	11/14/2013 5:19	11/14/2013 6:54	9.0	14.0	$0
Possum Point 6	D1	PP6 Derated due to 6A Duct Burners flame scanner.	2.18	0.04	11/16/2013 17:35	11/16/2013 19:46	9.0	19.6	$0
Possum Point 6	D1	PP6A on Unplanned Derate due to High Pressure Steam Bypass valve.	6.30	3.17	12/12/2013 4:20	12/12/2013 10:38	281.0	1,770.4	$0
Possum Point CT1	MO	67619901 - ANNUAL BLACK START TESTING	4.72	4.72	4/25/2013 7:45	4/25/2013 12:28	11.9	56.1	$0
Possum Point CT1	MO	67619901 - ANNUAL NERC BLACK START TESTING	2.23	2.23	5/22/2013 7:50	5/22/2013 10:04	11.9	26.6	$0
Possum Point CT1	U1	67646557 - SUDDEN PRESSURE RELAY SWITCH FAILURE	7.27	7.27	6/7/2013 12:24	6/7/2013 19:40	11.9	86.5	$0
Possum Point CT1	U1	67715682 - LINE BREAKERS TRIPPED DUE TO GROUND	4.10	4.10	11/24/2013 17:58	11/24/2013 22:04	11.9	48.8	$0
Possum Point CT2	MO	67619901 - ANNUAL BLACK START TESTING	4.72	4.72	4/25/2013 7:45	4/25/2013 12:28	11.9	56.1	$0
Possum Point CT2	MO	67619901 - ANNUAL NERC BLACK START TESTING	2.23	2.23	5/22/2013 7:50	5/22/2013 10:04	11.9	26.6	$0
Possum Point CT2	U1	67646557 - SUDDEN PRESSURE RELAY SWITCH FAILURE	7.27	7.27	6/7/2013 12:24	6/7/2013 19:40	11.9	86.5	$0
Possum Point CT2	SF	UNIT DID NOT COMPLETE STARTUP SEQUENCE IN THE LOGIC	3.57	3.57	9/11/2013 13:21	9/11/2013 16:55	11.9	42.4	$0
Possum Point CT2	U1	67715682 - LINE BREAKERS TRIPPED DUE TO GROUND	4.10	4.10	11/24/2013 17:58	11/24/2013 22:04	11.9	48.8	$0
Possum Point CT3	MO	67619901 - ANNUAL BLACK START TESTING	4.72	4.72	4/25/2013 7:45	4/25/2013 12:28	11.9	56.1	$0

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Possum Point CT3	MO	67619901 - ANNUAL NERC BLACK START TESTING	2.23	2.23	5/22/2013 7:50	5/22/2013 10:04	11.9	26.6	$0
Possum Point CT3	U1	67646557 - SUDDEN PRESSURE RELAY SWITCH FAILURE	7.27	7.27	6/7/2013 12:24	6/7/2013 19:40	11.9	86.5	$0
Possum Point CT3	U1	67715682 - LINE BREAKERS TRIPPED DUE TO GROUND	4.10	4.10	11/24/2013 17:58	11/24/2013 22:04	11.9	48.8	$0
Possum Point CT4	MO	67608939 - ANNUAL BLACK START TESTING	4.72	4.72	4/25/2013 7:45	4/25/2013 12:28	11.9	56.1	$0
Possum Point CT4	MO	67608939 - ANNUAL NERC BLACK START TESTING	2.23	2.23	5/22/2013 7:50	5/22/2013 10:04	11.9	26.6	$0
Possum Point CT4	U1	67646557 - SUDDEN PRESSURE RELAY SWITCH FAILURE	2.90	2.90	6/7/2013 12:24	6/7/2013 15:18	11.9	34.5	$0
Possum Point CT4	MO	67597659 - DIESEL ENGINE OIL CHANGE PM	3.25	3.25	11/6/2013 8:30	11/6/2013 11:45	11.9	38.7	$0
Possum Point CT4	U1	67715682 - LINE BREAKERS TRIPPED DUE TO GROUND	22.90	22.90	11/24/2013 17:58	11/25/2013 16:52	11.9	272.5	$0
Possum Point CT5	MO	67624417 - GENERATOR BREAKER AUXILIARY SWITCH REPLACEMENT	5.72	5.72	4/16/2013 7:00	4/16/2013 12:43	11.9	68.0	$0
Possum Point CT5	MO	67608939 - ANNUAL BLACK START TESTING	4.72	4.72	4/25/2013 7:45	4/25/2013 12:28	11.9	56.1	$0
Possum Point CT5	MO	67608939 - ANNUAL NERC BLACK START TESTING	2.23	2.23	5/22/2013 7:50	5/22/2013 10:04	11.9	26.6	$0
Possum Point CT5	U1	67646557 - SUDDEN PRESSURE RELAY SWITCH FAILURE	2.90	2.90	6/7/2013 12:24	6/7/2013 15:18	11.9	34.5	$0
Possum Point CT5	U1	67715682 - LINE BREAKERS TRIPPED DUE TO GROUND	22.90	22.90	11/24/2013 17:58	11/25/2013 16:52	11.9	272.5	$0
Possum Point CT6	MO	67608939 - ANNUAL BLACK START TESTING	4.72	4.72	4/25/2013 7:45	4/25/2013 12:28	12.0	56.6	$0
Possum Point CT6	MO	67608939 - ANNUAL NERC BLACK START TESTING	2.23	2.23	5/22/2013 7:50	5/22/2013 10:04	12.0	26.8	$0
Possum Point CT6	U1	67646557 - SUDDEN PRESSURE RELAY SWITCH FAILURE	2.90	2.90	6/7/2013 12:24	6/7/2013 15:18	12.0	34.8	$0
Possum Point CT6	U1	67715682 - LINE BREAKERS TRIPPED DUE TO GROUND	22.90	22.90	11/24/2013 17:58	11/25/2013 16:52	12.0	274.8	$0
Remington CT1	MO	FPI Inspection	40.98	40.98	1/29/2013 0:01	1/30/2013 17:00	154.7	6,340.1	$4
Remington CT1	PO	Lube Oil Change Out,L.F. Valve Replacement,R0 Blade Blending	393.50	393.50	4/1/2013 0:01	4/17/2013 9:31	153.0	60,205.5	$253
Remington CT1	U1	Inlet Bleed Valve would not close	2.85	2.85	5/15/2013 11:02	5/15/2013 13:53	154.7	440.9	$0
Remington CT1	MO	Pre-outage critical equip. calibration checks.	17.65	17.65	9/25/2013 0:01	9/25/2013 17:40	154.7	2,730.5	$0
Remington CT1	PO	Liner replacements and enhanced boroscope inspections	280.48	280.48	9/29/2013 0:01	10/10/2013 16:30	154.7	43,390.7	$0
Remington CT1	PO	Liner replacements and enhanced boroscope inspections	1.32	1.32	10/10/2013 17:06	10/10/2013 18:25	154.7	203.7	$0
Remington CT1	PO	Liner replacements and enhanced boroscope inspections	15.23	15.23	10/10/2013 18:31	10/11/2013 9:45	154.7	2,356.5	$0
Remington CT1	PO	Liner replacements and enhanced boroscope inspections	16.82	16.82	10/11/2013 21:10	10/12/2013 13:59	154.7	2,601.6	$110
Remington CT1	PO	Liner replacement and enhanced boroscope inspection	22.95	22.95	10/12/2013 15:13	10/13/2013 14:10	154.7	3,550.4	$0
Remington CT1	MO	Remove liquid fuel stop and control valves for vendor rebuild	18.77	18.77	10/29/2013 0:01	10/29/2013 18:47	154.7	2,903.3	$0
Remington CT1	MO	Liquid Fuel Gas Valves	42.02	42.02	12/2/2013 0:01	12/3/2013 18:02	154.7	6,500.0	$4
Remington CT1	MO	Test Run on Liquid Fuel / Liquid Fuel Gas Valves	0.67	0.67	12/3/2013 19:28	12/3/2013 20:08	154.7	103.2	$0
Remington CT2	SF	IGV hydraulic actuator servo failure	0.50	0.50	2/25/2013 5:22	2/25/2013 5:52	151.0	75.5	$0
Remington CT2	U1	IGV hydraulic actuator servo failure.	3.63	3.63	2/25/2013 5:52	2/25/2013 9:30	151.0	548.6	$0
Remington CT2	PO	Lube Oil Change Out ,L. F. Valve Replacement	396.67	396.67	4/1/2013 0:01	4/17/2013 12:41	151.0	59,896.7	$109
Remington CT2	U1	High vibration.trip	1.60	1.60	5/29/2013 8:47	5/29/2013 10:23	151.7	242.7	$0
Remington CT2	D1	Failed Summer 2013 Capacity Test	4,393.00	21.00	6/1/2013 0:00	12/1/2013 0:00	0.8	3,186.0	$0
Remington CT2	MO	Replace seismic vibration probe	25.67	25.67	6/3/2013 18:00	6/4/2013 19:40	151.7	3,893.7	$0
Remington CT2	MO	Boroscope Testing	13.75	13.75	7/23/2013 21:00	7/24/2013 10:45	151.7	2,085.9	$0
Remington CT2	PO	Enhanced boroscope inspections	303.75	303.75	9/29/2013 0:01	10/11/2013 15:46	151.7	46,078.9	$0
Remington CT2	PO	Enhanced Borescope Inspection	17.75	17.75	10/11/2013 17:00	10/12/2013 10:45	151.7	2,692.7	$15
Remington CT2	PO	Enhanced Borescope Inspection	23.97	23.97	10/12/2013 15:22	10/13/2013 15:20	151.7	3,635.8	$0
Remington CT2	U1	Unit tripped due to high exhaust spreads	1.13	1.13	10/28/2013 8:23	10/28/2013 9:31	151.7	171.9	$0
Remington CT2	MO	Remove liquid fuel stop and control valves for vendor rebuild	18.77	18.77	10/29/2013 0:01	10/29/2013 18:47	151.7	2,847.0	$0
Remington CT2	SF	BUS Undervoltage- No auto synch	0.22	0.22	11/13/2013 5:31	11/13/2013 5:44	151.7	32.9	$0
Remington CT2	U1	Bus undervoltage- no auto synch	5.55	5.55	11/13/2013 5:44	11/13/2013 11:17	151.7	841.9	$0
Remington CT2	MO	Liquid Fuel Gas Valves / Blade Grinding	204.87	204.87	12/2/2013 0:01	12/10/2013 12:53	151.7	31,078.3	$0
Remington CT2	MO	Test Run on Oil / Liquid Fuel Gas Valves / Blade Grinding	114.25	114.25	12/10/2013 13:57	12/15/2013 8:12	151.7	17,331.7	$144
Remington CT2	MO	Test Run on Oil / Liquid Fuel Gas Valves / Blade Grinding	7.33	7.33	12/15/2013 9:12	12/15/2013 16:32	151.7	1,112.4	$0
Remington CT3	SF	Unit failed to ignite on oil	0.50	0.50	1/23/2013 5:37	1/23/2013 6:07	151.0	75.5	$0
Remington CT3	U1	Water injection purge drain valve failed to open. Unit was avail on gas only	1.98	1.98	1/23/2013 6:07	1/23/2013 8:06	151.0	299.4	$0
Remington CT3	MO	FPI Inspection	40.98	40.98	1/29/2013 0:01	1/30/2013 17:00	151.0	6,188.4	$4
Remington CT3	PO	Lube Oil Change Out,L.F. Valve Replacement,R0 Blade Blending	397.00	397.00	4/18/2013 0:01	5/4/2013 13:01	151.0	59,947.0	$253
Remington CT3	MO	Borescope Inspection	23.00	23.00	6/21/2013 21:00	6/22/2013 20:00	152.3	3,502.9	$10
Remington CT3	MO	Borescope Inspection and Eddy Current Testing	21.37	21.37	7/22/2013 21:40	7/23/2013 19:02	152.3	3,254.2	$39
Remington CT3	PO	Enhanced Borescope Inspection	302.60	302.60	10/13/2013 0:01	10/25/2013 14:37	152.3	46,086.0	$33
Remington CT3	PO	Enhanced Borescope Inspection	20.63	20.63	10/25/2013 15:43	10/26/2013 12:21	152.3	3,142.4	$0
Remington CT3	PO	Enhanced Borescope Inspection	1.53	1.53	10/26/2013 16:13	10/26/2013 17:45	152.3	233.5	$0
Remington CT3	MO	Liquid Fuel Valves	15.87	15.87	12/5/2013 0:01	12/5/2013 15:53	152.3	2,416.5	$0
Remington CT3	MO	Replace GSU winding temp device	11.30	11.30	12/9/2013 6:00	12/9/2013 17:18	152.3	1,721.0	$0
Remington CT4	SF	Unit failed to ignite on oil.	0.23	0.23	1/23/2013 5:48	1/23/2013 6:02	151.0	[illegible]	[illegible]

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Remington CT4	U1	Unit failed to ignite on oil.	0.50	0.50	1/23/2013 6:02	1/23/2013 6:32	151.0	75.5	$0
Remington CT4	U1	Unable to run on oil and can't meet Nox on gas.	1.05	1.05	1/23/2013 9:57	1/23/2013 11:00	151.0	158.6	$0
Remington CT4	U1	Unit tripped offline due to IGV Servo Failure	3.57	3.57	3/18/2013 9:10	3/18/2013 12:44	151.0	538.6	$1
Remington CT4	U1	Unit run back	3.42	3.42	4/17/2013 14:13	4/17/2013 17:38	151.0	516.0	$0
Remington CT4	PO	Lube Oil Change Out,L.F. Valve Replacement	398.55	398.55	4/18/2013 0:01	5/4/2013 14:34	151.0	60,181.1	$109
Remington CT4	PO	Lube Oil Change Out,L.F. Valve Replacement	0.78	0.78	5/4/2013 16:13	5/4/2013 17:00	154.0	120.6	$0
Remington CT4	U1	Hydraulic Problems	8.00	8.00	6/5/2013 6:30	6/5/2013 14:30	154.0	1,232.0	$1
Remington CT4	MO	Boroscope Testing	14.17	14.17	7/24/2013 21:00	7/25/2013 11:10	154.0	2,181.7	$0
Remington CT4	MO	Pre-outage critical equip. calibration checks.	15.73	15.73	9/27/2013 0:01	9/27/2013 15:45	154.0	2,422.9	$0
Remington CT4	PO	Liner replacement and enhanced borescope inspection	296.52	296.52	10/13/2013 0:01	10/25/2013 8:32	154.0	45,663.6	$0
Remington CT4	PO	Liner replacement and enhanced borescope inspection	20.47	20.47	10/25/2013 11:56	10/26/2013 8:24	154.0	3,151.9	$0
Remington CT4	PO	Liner replacement and enhanced borescope inspection	1.75	1.75	10/26/2013 18:20	10/26/2013 20:05	154.0	269.5	$0
Remington CT4	MO	Liquid Fuel Valves	14.40	14.40	12/6/2013 0:01	12/6/2013 14:25	154.0	2,217.6	$0
Remington CT4	SF	LCI Communications Fault	1.38	1.38	12/9/2013 6:49	12/9/2013 8:12	154.0	213.0	$0
Remington CT4	U1	Compressor bleed valves failed to open	2.68	2.68	12/10/2013 19:45	12/10/2013 22:26	154.0	413.2	$7
Remington CT4	U1	Compressor bleed valves failed to close	1.85	1.85	12/11/2013 11:24	12/11/2013 13:15	154.0	284.9	$0
Roanoke Rapids 1	MO	MO BlackStart Testing	3.17	3.17	9/13/2013 8:00	9/13/2013 11:10	24.0	76.0	$0
Roanoke Rapids 1	MO	MO Reactive Power Testing	3.00	3.00	9/13/2013 12:00	9/13/2013 15:00	24.0	72.0	$0
Roanoke Rapids 1	MO	MO Reactive Power Testing	3.00	3.00	9/19/2013 12:00	9/19/2013 15:00	24.0	72.0	$0
Roanoke Rapids 1	U1	67704659 RR U1 FO- GOVERNOR CONTROL FUSE BLOWN	6.58	6.58	10/27/2013 8:40	10/27/2013 15:15	24.0	158.0	$1
Roanoke Rapids 1	MO	Station MO for Diesel Cutover	6.25	6.25	12/11/2013 9:00	12/11/2013 15:15	24.0	150.0	$0
Roanoke Rapids 2	MO	MO Black Start Testing	4.17	4.17	9/13/2013 7:00	9/13/2013 11:10	24.0	100.0	$0
Roanoke Rapids 2	MO	MO Reactive Power Testing	3.00	3.00	9/13/2013 12:00	9/13/2013 15:00	24.0	72.0	$0
Roanoke Rapids 2	MO	Station MO for Diesel Cutover	6.25	6.25	12/11/2013 9:00	12/11/2013 15:15	24.0	150.0	$0
Roanoke Rapids 3	MO	MO for BlackStart Testing	4.17	4.17	9/13/2013 7:00	9/13/2013 11:10	24.0	100.0	$0
Roanoke Rapids 3	MO	MO for Reactive Power Testing	3.00	3.00	9/13/2013 12:00	9/13/2013 15:00	24.0	72.0	$0
Roanoke Rapids 3	PO	Planned Outage RR3 Cavitation Repairs	2,006.57	2,006.57	9/14/2013 0:01	12/6/2013 13:35	24.0	48,157.6	$52
Roanoke Rapids 3	MO	Station MO for Diesel Cutover	6.23	6.23	12/11/2013 9:01	12/11/2013 15:15	24.0	149.6	$0
Roanoke Rapids 4	MO	MO for Black Start Testing	4.17	4.17	9/13/2013 7:00	9/13/2013 11:10	23.0	95.8	$0
Roanoke Rapids 4	MO	MO for Reactive Power Testing	3.00	3.00	9/13/2013 12:00	9/13/2013 15:00	23.0	69.0	$0
Roanoke Rapids 4	MO	MO for Reactive Power Testing	3.08	3.08	9/19/2013 11:55	9/19/2013 15:00	23.0	70.9	$0
Roanoke Rapids 4	MO	Station MO for Diesel Cutover	7.23	7.23	12/11/2013 8:01	12/11/2013 15:15	23.0	166.4	$0
Rosemary 1	MO	Gas leak on MOAB H24M Insulator. Replaced Insulator	31.03	31.03	3/5/2013 7:00	3/6/2013 14:02	165.0	5,120.4	$0
Rosemary 1	PO	NERC required relay testing (critical path) and assorted other maintenance.	493.92	493.92	3/23/2013 0:01	4/12/2013 13:56	165.0	81,496.3	$180
Rosemary 1	U1	Both HRSG HP Manway Gaskets Failed at High Pressure	24.38	24.38	5/22/2013 9:34	5/23/2013 9:57	165.0	4,023.2	$3
Rosemary 1	MO	- Replaced all HRSG Manway Gaskets Composed of Vermiculite Material	26.10	26.10	5/28/2013 8:00	5/29/2013 10:06	165.0	4,306.5	$13
Rosemary 1	MO	Unit 1 HP Economizer Tube Leak(s); Unit 2 preheater and LP Evaporator Tube Leak(s).	11.67	11.67	7/1/2013 8:00	7/1/2013 19:40	165.0	1,925.1	$0
Rosemary 1	MO	Replace failed insulator on H24M.	7.95	7.95	7/3/2013 7:00	7/3/2013 14:57	165.0	1,311.8	$0
Rosemary 1	D4	HRSG 1 HP Superheater Tube Leaks	35.00	24.39	7/13/2013 8:00	7/14/2013 19:00	115.0	4,025.0	$0
Rosemary 1	D1	GTG2 turning gear failed to engage prior to start.	3.07	1.02	8/12/2013 10:00	8/12/2013 13:04	55.0	168.6	$0
Rosemary 1	U1	GTG2 breaker relay open station main breaker and T2 Xfrmr High Side Breaker & GTG 1 Turning Gear Failed to Engage.	12.90	12.90	8/19/2013 22:15	8/20/2013 11:09	165.0	2,128.5	$0
Rosemary 1	D1	GTG2 generator breaker 52BF relay caused the station main breaker and the T2 Xfrmr high side breaker to open.	6.37	2.12	8/20/2013 11:09	8/20/2013 17:31	55.0	350.1	$0
Rosemary 1	D1	Inlet Guide Vane Control Trip	1.55	1.08	9/10/2013 12:00	9/10/2013 13:33	115.0	178.2	$0
Rosemary 1	PO	Replaced HRSG penetration seals and repaired HRSG tube leakes.	687.68	687.68	9/24/2013 0:01	10/22/2013 15:42	165.0	113,467.7	$0
Yorktown 1	MO	(WO# 67581458) Low Temperature Superheat Tube Leak (El. 92, SE corner)	15.20	15.20	1/7/2013 7:00	1/7/2013 22:12	159.0	2,416.8	$0
Yorktown 1	D1	(no incremental cost) B-pulverizer feed pipe plugged with wet coal forcing the mill out of service.	8.80	1.88	1/20/2013 23:25	1/21/2013 8:13	34.0	299.2	$0
Yorktown 1	D1	(no incremental cost) Feed to B-pulverizer was lost due to wet coal.	1.65	0.35	1/21/2013 9:46	1/21/2013 11:25	34.0	56.1	$0
Yorktown 1	D1	(no incremental cost) Wet coal limited load due to feeder speed limitations and pulverizer suctions.	30.18	2.09	1/21/2013 11:25	1/22/2013 17:36	11.0	332.0	$0
Yorktown 1	D1	(no incremental cost) Emergency Backwash of condenser waterboxes due to rapid rise in backpressure.	1.15	0.28	1/25/2013 8:13	1/25/2013 9:22	39.0	44.8	$0
Yorktown 1	U1	(WO# 67591721) HTSH and Reheat pendant assembly tube leaks forced the unit off line.	46.42	46.42	1/25/2013 15:55	1/27/2013 14:20	159.0	7,380.3	$0
Yorktown 1	D1	(no incremental cost) High baseline opacity believed to be caused by poor coal quality (high silica in ash)	1.43	0.16	2/14/2013 7:30	2/14/2013 8:56	18.0	25.8	$0
Yorktown 1	MO	(WO# 67593783) Replacement of gasket and pipe fitting top side of C" phase box."	26.63	26.63	3/1/2013 7:00	3/2/2013 9:38	159.0	4,234.6	$0
Yorktown 1	D1	(no incremental cost) High baseline opacity believed to be caused by poor coal quality (high silica in ash)	14.25	0.81	3/6/2013 14:50	3/7/2013 5:05	9.0	128.3	$0
Yorktown 1	D1	feeder speed limitation reached - Low BTU coal in bunker	1,541.33	53.43	3/19/2013 7:55	5/22/2013 13:15	8.0	8,495.2	$0
Yorktown 1	D1	Coal feed stopped to 2C mill	0.17	0.02	3/21/2013 11:39	3/21/2013 11:49	18.0	3.0	$0
Yorktown 1	PO	(WO #67585250) U1 ESP Consent Decree PM/Insp	479.43	479.43	3/23/2013 1:08	4/12/2013 0:34	159.0	76,229.8	$176
Yorktown 1	MO	WO#67636950 - ROFA fan vibration. Insp and repair. Unable to isolate on line.	41.37	41.37	5/24/2013 1:38	5/25/2013 19:00	159.0	6,577.4	$4
Yorktown 1	SF	Order #67641777 01-MS-99 Hole in the steam pipe	29.02	29.02	5/28/2013 19:42	5/30/2013 0:43	159.0	4,618.7	$1

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PD = Planned Derating

NC = Non curtailing Event
ME = Extension of Maintenance Outage
PE = Extension of Planned Outage
D# = Derates
DM = Maintenance Derate Extension

2013 Power Generation Outage Report
(Fossil & Hydro)

Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2013 Dates Start	2013 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Yorktown 1	U1	Order #67646984 ESP transformer fire	33.87	33.87	6/8/2013 13:00	6/9/2013 22:52	159.0	5,384.9	$0
Yorktown 1	D1	Wo #676466984 A3 and A5 ESP fields shorted	110.45	2.51	6/8/2013 13:00	6/13/2013 3:27	49.0	398.5	$0
Yorktown 1	MO	Order #67646984 ESP transformer fire caused by A5 ESP field ground	68.45	68.45	6/10/2013 7:00	6/13/2013 3:27	159.0	10,883.6	$13
Yorktown 1	MO	WO #67648537 Boiler drum relief (riser) tube leak	32.62	32.62	6/20/2013 13:45	6/21/2013 22:22	159.0	5,186.1	$4
Yorktown 1	U1	WO #67655047 Tube leak, waterwall, 8th floor	51.67	51.67	6/28/2013 12:10	6/30/2013 15:50	159.0	8,215.1	$19
Yorktown 1	D1	Boiler performance is poor and feeder speed limts have been reached	357.37	8.26	7/6/2013 12:38	7/21/2013 10:00	4.0	1,314.0	$0
Yorktown 1	MO	Wo #67659954. Economizer tube leak near northern header	26.22	26.22	7/7/2013 21:57	7/9/2013 0:10	159.0	4,168.5	$15
Yorktown 1	SF	CRO communicated and committed to a MOC load request that could not be adhered to.	2.65	2.65	7/9/2013 8:30	7/9/2013 11:09	159.0	421.4	$0
Yorktown 1	D1	High back pressure limiting load	25.90	1.14	7/9/2013 15:16	7/10/2013 17:10	7.0	181.3	$0
Yorktown 1	SF	Order #67678058. Control valves are not working remotely.	3.35	3.35	8/21/2013 6:48	8/21/2013 10:09	159.0	532.7	$0
Yorktown 1	D1	Order #67679084 and Order #67678243. Both D coal feeders are unavailable.	1.67	0.60	8/21/2013 13:46	8/21/2013 15:26	57.0	94.9	$0
Yorktown 1	D1	(No incremental cost) - Low BTU coal causing feeder speeds to max out	67.12	3.80	8/21/2013 16:53	8/24/2013 12:00	9.0	604.0	$0
Yorktown 1	PO	Fall Outage Critical path: Orders #67669717, 67650219, 67624200 ESP insp/repairs RevFYT1.27	736.27	738.27	9/9/2013 2:44	10/9/2013 19:00	159.0	117,066.5	$83
Yorktown 1	D1	Order #67703184 Aux oil pump would not supply enough pressure for FW pump start	6.48	2.57	10/22/2013 8:02	10/22/2013 14:31	63.0	408.5	$0
Yorktown 1	MO	Order #67703235 Steam leak on 3rd point NRV	10.75	10.75	10/29/2013 7:00	10/29/2013 17:45	159.0	1,709.3	$1
Yorktown 1	MO	Order #67705464 Rofa fan repairs	251.43	251.43	11/6/2013 7:00	11/16/2013 18:26	159.0	39,977.8	$13
Yorktown 1	D1	Order #67715938 D mill tempering air damper is not working in automatic	9.68	2.68	11/24/2013 9:34	11/24/2013 19:15	44.0	426.1	$0
Yorktown 1	D1	H2 gas pressure sensing line to the stator oil system came off	0.68	0.30	12/9/2013 12:33	12/9/2013 13:14	69.0	47.2	$0
Yorktown 1	U1	Economizer tube leak (Order #67726643)	31.23	31.23	12/27/2013 10:09	12/28/2013 17:23	159.0	4,966.0	$8
Yorktown 2	D1	(no incremental cost) Vibration on #3 bearing high, limited load to troubleshoot	0.67	0.28	1/15/2013 9:35	1/15/2013 10:15	69.0	45.9	$0
Yorktown 2	D1	(No incremental cost) #3 bearing vibration high, limited load to troubleshool.	2.30	0.34	1/15/2013 10:40	1/15/2013 12:58	24.0	55.3	$0
Yorktown 2	D1	(No incremental cost) #3 bearing experiencing high vibration; limited load to troubleshoot.	3.98	1.92	1/15/2013 12:58	1/15/2013 16:57	79.0	314.7	$0
Yorktown 2	D1	(no incremental cost) Wet coal limited pulverizer feeder speeds and suction.	120.85	8.84	1/17/2013 7:29	1/22/2013 8:20	12.0	1,450.3	$0
Yorktown 2	D1	(no incremental cost) Wet coal limited pulverizer feeder speeds and suctions.	66.03	0.81	1/22/2013 8:20	1/25/2013 2:22	2.0	132.0	$0
Yorktown 2	D1	(no incremental cost) High Back pressure caused by tube leaks in air ejector. Derate requested to troubleshoot cause of high back-pressure.	1.00	0.48	1/31/2013 2:32	1/31/2013 3:32	79.0	79.0	$0
Yorktown 2	U1	(no incremental cost) Boiler experienced an automatic trip at 10MW due to loss of flame votes as the unit was being removed from service.	0.03	0.03	1/31/2013 23:59	2/1/2013 0:01	164.0	5.4	$0
Yorktown 2	MO	(WO# 67594183) Economizer tube leak	59.98	59.98	2/1/2013 0:01	2/3/2013 12:00	164.0	9,837.2	$32
Yorktown 2	U1	(WO# 67595086) Fire in a cable tray underneath burner corners 6 and 7 melted wiring causing failure of 2 flame scanner and igniters	38.60	38.60	2/3/2013 12:00	2/5/2013 2:36	164.0	6,330.4	$18
Yorktown 2	D1	High Backpressure caused by loss of loop seal prime on steam air ejector.	5.08	1.67	2/6/2013 12:21	2/6/2013 17:26	54.0	274.5	$0
Yorktown 2	MO	(WO# 67435790) Repair #3 bearing. See extended description, cause and corrective action. 67582779	399.67	399.67	2/9/2013 6:50	2/25/2013 22:30	164.0	65,545.4	$128
Yorktown 2	D1	Feeder speed limits have been reached, wet coal has low BTU factor	1,676.97	68.38	3/13/2013 20:17	5/22/2013 17:15	10.0	11,214.8	$0
Yorktown 2	PO	(WO #67584198) U2 ESP Consent Decree PM/Insp. (WO #67577296) U2 A2 ESP filed FYT2.28	503.23	503.23	3/29/2013 1:06	4/19/2013 0:20	164.0	82,530.2	$196
Yorktown 2	MO	Order #67635068 Elbow at #3 blow off tank - required #2 boiler isolation	52.25	52.25	5/15/2013 7:00	5/17/2013 11:15	164.0	8,569.0	$1
Yorktown 2	D1	Coal leak at the secondary riffle distributor	1.08	0.36	5/21/2013 13:48	5/21/2013 14:53	54.0	58.5	$0
Yorktown 2	D1	Coal leak at 2A exhauster fan	1.50	0.44	5/22/2013 10:04	5/22/2013 11:34	48.0	72.0	$0
Yorktown 2	D1	Feeder speed limits have been reached	5.87	0.18	6/12/2013 12:18	6/12/2013 18:10	5.0	29.4	$0
Yorktown 2	U1	WO#67651563 Main Steam tubing failure to atmosphere	11.58	11.58	6/21/2013 1:45	6/21/2013 13:20	164.0	1,899.6	$0
Yorktown 2	D1	WO #67654965, 2D mill, 12 pipe leaking coal"	8.55	1.77	6/27/2013 19:50	6/28/2013 4:23	34.0	290.8	$0
Yorktown 2	MO	WO #67669285 1st point htr head leak	42.60	42.60	7/25/2013 7:00	7/27/2013 1:36	164.0	6,986.4	$0
Yorktown 2	D1	Wet Coal	24.15	3.09	8/19/2013 11:50	8/20/2013 11:59	21.0	507.1	$0
Yorktown 2	D1	Low BTU coal (not outside management control)	150.15	4.58	8/21/2013 9:06	8/27/2013 15:15	5.0	750.8	$0
Yorktown 2	PO	Maintenance Outage Critical path: Orders #67669730, 67685250, 67676920 2C coal mill FYT2.29	432.45	432.45	9/9/2013 4:02	9/27/2013 4:29	164.0	70,921.8	$182
Yorktown 2	D1	Order #67697231 2C mill coal leak	6.77	2.02	10/4/2013 6:36	10/4/2013 13:22	49.0	331.6	$0
Yorktown 2	D1	Order #67697578 2B coal mill motor tripped on B" phase overcurrent relay"	7.83	2.34	10/5/2013 9:16	10/5/2013 17:06	49.0	383.8	$0
Yorktown 2	MO	Order #67698405 Hole in ESP inlet B" side wall at expansion joint"	9.08	9.08	10/30/2013 7:00	10/30/2013 16:05	164.0	1,489.6	$1
Yorktown 2	D1	Order #67712928 2A Forced draft fan rub during coast down.	5.83	2.99	11/16/2013 13:48	11/16/2013 19:38	84.0	490.0	$0
Yorktown 2	SF	Order #67715932 Cold end average temp is not high enough for coal mill start permissive	0.98	0.98	11/24/2013 6:00	11/24/2013 6:59	164.0	161.2	$0
Yorktown 2	MO	Order #67713620 5th point heater tube leaks	41.02	41.02	12/5/2013 0:00	12/6/2013 17:01	164.0	6,726.8	$3
Yorktown 2	U1	Order #67722958. 2nd point heater leak	5.38	5.38	12/15/2013 16:47	12/15/2013 22:10	164.0	882.8	$0
Yorktown 2	D1	Order #67722958. 2nd point heater leak/failed.	76.27	2.33	12/16/2013 9:44	12/19/2013 14:00	5.0	381.3	$0
Yorktown 3	D1	Failed Winter Capacity Test	3,623.00	13.05	12/1/2012 0:00	6/1/2013 0:00	7.0	10,476.7	$0
Yorktown 3	PO	(WO# 67552255 & 67606152) Burner Valve Replacement Project FYT3.29	2,119.83	2,119.83	3/4/2013 0:00	5/31/2013 8:50	803.0	1,702,225.9	$1,886
Yorktown 3	NC	Post outage - startup and equipment testing	0.98	-	5/31/2013 8:50	5/31/2013 9:49	-	-	$0
Yorktown 3	U1	Unit tripped - 1st out is high drum level	6.47	6.47	5/31/2013 9:49	5/31/2013 16:17	803.0	5,193.0	$0
Yorktown 3	NC	Post outage - startup, equipment testing and commissioning.	47.38	-	5/31/2013 16:17	6/2/2013 15:40	-		$0

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2013 Power Generation Outage Report

(Fossil & Hydro)

Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2013 Dates Start	2013 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Yorktown 3	MO	Order #67645345 Tube leak at corner #3	63.25	63.25	6/5/2013 7:00	6/7/2013 22:15	803.0	50,789.8	$6
Yorktown 3	SF	WO #67269001 HO recirc valves leaking	22.43	22.43	6/23/2013 21:42	6/24/2013 20:08	803.0	18,013.7	$0
Yorktown 3	D1	WO #67652842 3C CN PP packing leaking	28.32	1.32	6/24/2013 11:46	6/25/2013 16:05	53.0	1,057.6	$0
Yorktown 3	MO	WO #67653629 Tube leak @#3 corner 3rd floor	27.70	27.70	6/27/2013 7:00	6/28/2013 10:42	803.0	22,243.1	$12
Yorktown 3	SF	Turbine tripped on back pressure coming out of prewarm	4.35	4.35	7/17/2013 6:35	7/17/2013 10:56	803.0	3,493.1	$0
Yorktown 3	D1	WO #67666395 3C condensate pump has excessive vibration and the packing is leaking	113.72	21.67	7/20/2013 7:53	7/25/2013 1:36	153.0	17,398.6	$24
Yorktown 3	D1	Order #67652842 3C condensate pump vibrations are excessive	238.47	9.95	8/6/2013 13:30	8/16/2013 11:58	32.9	7,845.6	$80
Yorktown 3	PO	Planned outage - Critical path: Order #67675495 overhaul of 3C condensate pump. FYT3.30	1,403.80	1,403.80	9/30/2013 0:01	11/27/2013 10:49	788.9	1,107,457.8	$838

2013 Power Generation Performance Statistics (Fossil & Hydro)

Unit	Heat Rate (BTU/kWh)	Equivalent Availability	EFOR	Capacity Factor
Bath County 1	-	74.15	10.59	11.77
Bath County 2	-	83.15	5.40	16.97
Bath County 3	-	91.02	2.41	20.57
Bath County 4	-	81.12	17.60	9.45
Bath County 5	-	84.20	4.92	14.11
Bath County 6	-	93.06	4.96	15.43
Bellemeade 1	8,343	85.06	3.38	12.70
Bremo 3	13,004	62.40	0.01	9.72
Bremo 4	10,759	55.78	6.05	30.88
Chesterfield 3	12,332	83.00	5.16	7.06
Chesterfield 4	10,563	67.76	8.93	36.63
Chesterfield 5	10,078	70.95	4.08	57.79
Chesterfield 6	9,902	86.80	1.80	63.34
Chesterfield 7	7,533	90.61	2.38	86.47
Chesterfield 8	7,321	93.62	1.34	92.81
Clover 1	9,985	97.51	0.14	80.25
Clover 2	10,013	94.45	2.93	75.10
Chesapeake 1	10,664	96.40	3.74	18.07
Chesapeake 2	10,800	93.15	7.72	18.19
Chesapeake 3	10,513	85.91	1.90	60.03
Chesapeake 4	10,858	86.13	10.46	23.39
Chesapeake CT1	21,397	95.64	95.50	0.06
Chesapeake CT2	19,832	99.02	-	0.07
Chesapeake CT4	19,330	89.40	99.49	0.05
Chesapeake CT6	20,673	99.41	26.90	0.07
Cushaw 1	-	62.21	37.61	78.93
Darbytown CT1	12,478	96.42	0.83	5.70
Darbytown CT2	13,071	98.11	0.45	4.76
Darbytown CT3	12,372	98.99	-	5.67
Darbytown CT4	12,563	97.41	-	6.40
Elizabeth River 1	12,631	92.66	23.23	1.73
Elizabeth River 2	12,610	93.46	-	1.94
Elizabeth River 3	12,463	93.79	2.06	1.14
Gaston 1	-	98.26	10.54	13.88
Gaston 2	-	97.18	10.01	18.79
Gaston 3	-	51.51	83.06	5.18
Gaston 4	-	97.83	3.88	24.54
Gravel Neck CT1	15,988	95.12	98.14	0.02
Gravel Neck CT2	17,855	95.97	-	0.02
Gravel Neck CT3	12,648	71.72	-	1.31
Gravel Neck CT4	12,772	98.04	1.71	4.62
Gravel Neck CT5	13,403	97.91	3.63	3.95
Gravel Neck CT6	12,986	97.96	35.12	1.62
Gordonsville 1	8,393	93.83	1.13	48.06
Gordonsville 2	8,411	94.44	0.35	48.07
Low Moor CT1	17,358	99.64	84.10	0.07
Low Moor CT2	17,403	99.98	-	0.07
Low Moor CT3	17,155	99.91	-	0.07
Low Moor CT4	16,841	99.91	-	0.07
Ladysmith CT1	10,574	81.15	-	10.19
Ladysmith CT2	10,301	80.17	0.48	9.17
Ladysmith CT3	10,497	93.60	3.28	10.79
Ladysmith CT4	10,422	94.41	0.51	14.17
Ladysmith CT5	10,306	94.80	1.30	12.85
Mecklenburg 1	12,118	96.92	1.05	30.34
Mecklenburg 2	12,369	98.05	0.80	31.02
Mt. Storm 1	9,845	74.48	2.68	63.39
Mt. Storm 2	9,791	83.29	5.03	66.73
Mt. Storm 3	10,243	79.26	6.87	64.57
Mt. Storm CT1	15,975	91.97	80 47	0.18
Northern Neck CT1	17,165	99.59	-	0.06
Northern Neck CT2	17,323	99.62	5.19	0.06
Northern Neck CT3	17,078	95.84	-	0.06
Northern Neck CT4	17,133	95.84	-	0.07
Possum Point 3	11,395	89.27	5.03	3.86
Possum Point 4	11,322	91.90	12.19	5.89
Possum Point 5	10,856	69.67	65.14	0.45
Possum Point 6	7,181	89.42	0.77	74.02
Possum Point CT1	16,677	99.79	66.96	0.07
Possum Point CT2	16,268	99.75	88.14	0.02
Possum Point CT3	16,667	99.79	67.51	0.06
Possum Point CT4	16,674	99.59	82.45	0.07
Possum Point CT5	16,636	99.56	81.34	0.07
Possum Point CT6	16,662	99.63	82.38	0.07
Pittsylvania 1	15,765	77.94	5.41	50.79
Remington CT1	10,623	90.26	0.26	12.34
Remington CT2	10,705	88.75	3.38	10.97
Remington CT3	10,783	90.45	0.28	10.24
Remington CT4	10,670	91.04	2.29	10.95
Rosemary 1	9,641	84.88	6.51	5.26
Roanoke Rapids 1	-	99.75	0.08	61.96
Roanoke Rapids 2	-	99.85	-	28.15
Roanoke Rapids 3	-	76.94	-	13.57
Roanoke Rapids 4	-	99.80	-	41.91
Yorktown 1	10,718	77.54	8.36	26.45
Yorktown 2	10,155	80.60	4.14	32.08
Yorktown 3	10,475	57.83	26.83	1.26

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D# = Derates
DM = Maintenance Derate Extension

2014 Power Generation Outage Report
(Fossil & Hydro)

Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2014 Dates Start	2014 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Bath County 1	MO	Due to a limit switch being out of adjustment the phase reversal switch was showing an incorrect position. No implemental cost occurred.	7.00	7.00	1/13/2014 8:00	1/13/2014 15:00	502.1	3,514.7	$0
Bath County 1	U1	One of spherical valve's position indicator limit switches had moved. Incremental cost occurred to 67736895.	2.17	2.17	1/22/2014 20:20	1/22/2014 22:30	502.1	1,088.1	$0
Bath County 1	MO	All units had to be off line to change out computer equipment to replace PCAMS. No incremental cost occurred.	0.97	0.97	1/31/2014 12:00	1/31/2014 12:58	502.1	485.5	$0
Bath County 1	MO	Due to transmission work on the station is curtailed to 2 generators and 2 pumps. No incremental cost occurred.	6.87	6.87	2/3/2014 9:30	2/3/2014 16:22	502.1	3,447.9	$0
Bath County 1	MO	Due to transmission work on the station is curtailed to 4 generators and 4 pumps. No incremental cost occurred.	55.75	55.75	2/4/2014 7:00	2/6/2014 14:45	502.1	27,992.1	$0
Bath County 1	MO	Due to transmission work on the station is curtailed to 4 generators and 4 pumps. No incremental cost occurred.	7.18	7.18	2/22/2014 16:50	2/23/2014 0:01	502.1	3,606.6	$0
Bath County 1	MO	Perform generator inspection. Incremental cost occurred to 14S.1	115.07	115.07	2/23/2014 0:01	2/27/2014 19:05	502.1	57,775.1	$4
Bath County 1	MO	Due to transmission work on the station is curtailed to 4 generators and 4 pumps. No incremental cost occurred.	52.93	52.93	2/27/2014 19:05	3/2/2014 0:01	502.1	26,577.7	$0
Bath County 1	U1	Due to transmission work on the station is curtailed to 4 generators and 4 pumps. No incremental cost occurred.	1.02	1.02	3/9/2014 23:00	3/10/2014 0:01	502.1	510.6	$0
Bath County 1	MO	Switchyard breaker H1T547 was due an overhaul. No incremental cost occurred.	89.17	89.17	3/10/2014 0:01	3/13/2014 17:11	502.1	44,770.8	$0
Bath County 1	U1	Due to transmission work on the station is curtailed to 4 generators and 4 pumps. No incremental cost occurred.	6.82	6.82	3/13/2014 17:11	3/14/2014 0:00	502.1	3,422.8	$0
Bath County 1	MO	Unit 2's TR disconnect needed to be closed. No incremental cost occurred.	0.83	0.83	3/26/2014 13:00	3/26/2014 13:50	502.1	418.2	$0
Bath County 1	NC	Due to the 548 line being out the station is curtailed to 3 generators and 2 pumps. No incremental cost occurred.	11.17	-	4/1/2014 12:21	4/1/2014 23:31	-	-	$0
Bath County 1	NC	Due to the 548 line being out the station is curtailed to 3 generators and 2 pumps. No incremental cost occurred.	25.12	-	4/2/2014 22:06	4/3/2014 23:13	-	-	$0
Bath County 1	MO	Testing 548 lines SPS. No incremental cost occurred.	2.67	2.67	4/5/2014 8:00	4/5/2014 10:40	500.0	1,333.5	$0
Bath County 1	MO	The spherical valve oil pump keeps tripping it's feed breaker. Incremental cost occurred to 67763891	2.00	2.00	4/10/2014 13:00	4/10/2014 15:00	500.0	1,000.0	$3
Bath County 1	U1	The unit tripped off line due to lightning striking the 547 line. No incremental cost occurred.	3.07	3.07	4/25/2014 13:30	4/25/2014 16:34	500.0	1,533.5	$0
Bath County 1	U1	The unit tripped off line as a condenser due to a stator ground relay malfunction. No incremental cost occurred.	3.98	3.98	4/25/2014 22:54	4/26/2014 2:53	500.0	1,991.5	$0
Bath County 1	NC	The station was limited to one pump to test isophase. No incremental cost occurred.	13.75	-	4/30/2014 7:00	4/30/2014 20:45	-	-	$0
Bath County 1	NC	No pumps or condenser can be started due to isophase testing. No incremental cost occurred.	10.33	-	5/1/2014 7:00	5/1/2014 17:20	-	-	$0
Bath County 1	MO	Upper guide bearing cooling water line is leaking. No incremental cost occurred.	3.75	3.75	5/15/2014 7:00	5/15/2014 10:45	500.0	1,875.0	$0
Bath County 1	MO	The unloader for governor oil pump 1B will not shut the pump off. Incremental cost occurred to 67777513.	3.95	3.95	5/27/2014 8:00	5/27/2014 11:57	500.0	1,975.0	$0
Bath County 1	MO	The 1A inlet valve pump keeps tripping it's feed breaker. No incremental cost occurred.	7.00	7.00	7/16/2014 8:00	7/16/2014 15:00	500.0	3,500.0	$0
Bath County 1	MO	The emergency buss auto transfer PM was due. No incremental cost occurred.	1.30	1.30	8/3/2014 10:00	8/3/2014 11:18	500.0	650.0	$0
Bath County 1	D1	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	403.02	28.21	9/5/2014 5:00	9/22/2014 0:01	35.0	14,105.6	$0
Bath County 1	PO	The post peak season generator inspection was due. Incremental cost occurred to 14F1.1	85.62	85.62	9/22/2014 0:01	9/25/2014 13:38	500.0	42,808.5	$98
Bath County 1	PO	The post peak season generator inspection was due. Incremental cost occurred to 14F1.1	1.63	1.63	9/25/2014 17:40	9/25/2014 19:18	500.0	816.5	$0
Bath County 1	MO	The unit's upper guide bearing vibration is running high. Incremental cost occurred to 67808383	113.93	113.93	9/29/2014 0:01	10/3/2014 17:57	500.0	56,966.5	$104
Bath County 1	D1	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred	150.07	10.51	10/3/2014 17:57	10/10/2014 0:01	35.0	5,252.3	$0
Bath County 1	MO	The unit's upper guide bearing vibration is running high. Incremental cost occurred to 67808383	23.30	23.30	10/10/2014 0:01	10/10/2014 23:19	500.0	11,650.0	$0
Bath County 1	D1	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	247.00	17.29	10/10/2014 23:19	10/21/2014 6:19	35.0	8,645.0	$0
Bath County 1	MO	A DRM needed to be performed on the unit's G/M breaker. Incremental cost occurred to 67814389	58.48	58.48	10/21/2014 6:19	10/23/2014 16:48	500.0	29,241.5	$0
Bath County 1	PD	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	973.20	68.12	10/23/2014 16:48	12/3/2014 5:00	35.0	34,062.0	$0
Bath County 1	MO	500kv breaker H1TH3 was due an overhaul. No incremental cost occurred.	39.63	39.63	12/3/2014 5:00	12/4/2014 20:38	500.0	19,816.5	$0
Bath County 1	PD	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	88.48	6.19	12/4/2014 20:38	12/8/2014 13:07	35.0	3,096.9	$0
Bath County 1	MO	The salt seal is slinging water. No incremental cost occurred.	0.50	0.50	12/8/2014 13:07	12/8/2014 13:37	500.0	250.0	$0
Bath County 1	PD	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred	116.38	8.15	12/8/2014 13:37	12/13/2014 10:00	35.0	4,073.4	$0
Bath County 1	MO	Commission testing was required for the station EG and Sub-station upgrade project. Incremental cost occurred to 54193.1.3	6.17	6.17	12/13/2014 10:00	12/13/2014 16:10	500.0	3,083.5	$0
Bath County 1	PD	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred	88.93	6.23	12/13/2014 16:10	12/17/2014 9:06	35.0	3,112.7	$0
Bath County 1	MO	Commission testing was required for the station EG and Sub-station upgrade project. Incremental cost occurred to 54193.1.3	4.83	4.83	12/17/2014 9:06	12/17/2014 13:56	500.0	2,416.5	$0
Bath County 1	PD	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred	307.57	21.53	12/17/2014 13:56	12/30/2014 9:30	35.0	10,764.8	$0
Bath County 1	MO	Low side switching needed to be performed to isolate EM-2. No incremental cost occurred.	0.50	0.50	12/30/2014 9:30	12/30/2014 10:00	500.0	250.0	$0
Bath County 1	PD	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred	38.00	2.66	12/30/2014 10:00		35.0	1,330.0	$0
Bath County 2	NC	The unit had a failed pump start when being switched from a condenser to a pump. No incremental cost occurred.	0.50	-	1/13/2014 22:02	1/13/2014 22:32	-	-	$0
Bath County 2	MO	All units had to be off line to change out computer equipment to replace PCAMS. No incremental cost occurred.	0.97	0.97	1/31/2014 12:00	1/31/2014 12:58	502.2	485.6	$0
Bath County 2	NC	The unit failed to start as a pump. No incremental cost occurred.	0.17	-	2/26/2014 12:40	2/26/2014 12:50	-		$0
Bath County 2	PO	Due to cracking the rotor needed to be replaced. Incremental cost occurred to 14S2.1	729.00	729.00	3/2/2014 0:01	4/1/2014 10:01	502.2		

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2014 Power Generation Outage Report
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Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2014 Dates Start	2014 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Bath County 2	PO	Due to cracking the rotor needed to be replaced. Incremental cost occurred to 14S2.1	24.60	24.60	4/1/2014 21:30	4/2/2014 22:06	500.0	12,300.0	$0
Bath County 2	PO	Due to cracking the rotor needed to be replaced. Incremental cost occurred to 14S2.1	31.85	31.85	4/3/2014 15:10	4/4/2014 23:01	500.0	15,925.0	$0
Bath County 2	PO	Due to cracking the rotor needed to be replaced. Incremental cost occurred to 14S2.1	4.00	4.00	4/5/2014 7:20	4/5/2014 11:20	500.0	2,000.0	$0
Bath County 2	PO	Due to cracking the rotor needed to be replaced. Incremental cost occurred to 14S2.1	96.72	96.72	4/5/2014 15:56	4/9/2014 16:39	500.0	48,358.5	$0
Bath County 2	PO	Due to cracking the rotor needed to be replaced. Incremental cost occurred to 14S2.1	93.68	93.68	4/10/2014 16:10	4/14/2014 13:51	500.0	46,841.5	$0
Bath County 2	PO	Due to cracking the rotor needed to be replaced. Incremental cost occurred to 14S2.1	2.48	2.48	4/14/2014 19:45	4/14/2014 22:14	500.0	1,241.5	$0
Bath County 2	PO	Due to cracking the rotor needed to be replaced. Incremental cost occurred to 14S2.1	31.65	31.65	4/15/2014 6:51	4/16/2014 14:30	500.0	15,825.0	$0
Bath County 2	U1	The unit tripped off line due to lightning striking the 547 line. No incremental cost occurred.	3.07	3.07	4/25/2014 13:30	4/25/2014 16:34	500.0	1,533.5	$0
Bath County 2	NC	No pumps or condenser can be started due to isophase testing. No incremental cost occurred.	10.33	-	5/1/2014 7:00	5/1/2014 17:20	-	-	$0
Bath County 2	MO	The intermediate guide bearing vibration is running high. No incremental cost occurred.	8.45	8.45	5/19/2014 0:11	5/19/2014 8:38	500.0	4,225.0	$0
Bath County 2	MO	The intermediate guide bearing vibration is running high. No incremental cost occurred	1.05	1.05	5/20/2014 11:35	5/20/2014 12:38	500.0	525.0	$0
Bath County 2	MO	The intermediate guide bearing vibration is running high. No incremental cost occurred	0.03	0.03	5/20/2014 22:30	5/20/2014 22:32	500.0	16.5	$0
Bath County 2	MO	The intermediate guide bearing vibration is running high. No incremental cost occurred	11.52	11.52	5/21/2014 7:10	5/21/2014 18:41	500.0	5,758.5	$0
Bath County 2	MO	The intermediate guide bearing vibration is running high. No incremental cost occurred	24.68	24.68	5/22/2014 12:39	5/23/2014 13:20	500.0	12,341.5	$0
Bath County 2	U1	The spherical valves downstream seal did not set when the unit came off line. No incremental cost occurred.	3.42	3.42	5/27/2014 9:20	5/27/2014 12:45	500.0	1,708.5	$0
Bath County 2	MO	A switchyard 500kv breaker was due an overhaul. No incremental cost occurred.	78.67	78.67	6/2/2014 7:00	6/5/2014 13:40	500.0	39,333.5	$0
Bath County 2	U1	The unit tripped off line due to a thyristor and two fuses blowing in the exciter. Incremental cost occurred to 67803812.	50.30	50.30	7/3/2014 13:52	7/5/2014 16:10	500.0	25,150.0	$16
Bath County 2	MO	The emergency buss auto transfer PM was due. No incremental cost occurred.	1.30	1.30	8/3/2014 10:00	8/3/2014 11:18	500.0	650.0	$0
Bath County 2	NC	Due to 500 kv breaker work at the station, the station was curtailed to 3 generators and 2 pumps. No incremental cost occurred.	6.00	-	9/12/2014 7:00	9/12/2014 13:00	-	-	$0
Bath County 2	D1	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	5.67	0.40	9/14/2014 18:21	9/15/2014 0:01	35.0	198.3	$0
Bath County 2	PO	Post peak season generator inspection due. Incremental cost occurred to 14F2.1Post peak season generator inspection due. Incremental cost occurred to 14F2.1	63.48	63.48	9/15/2014 0:01	9/17/2014 15:30	500.0	31,741.5	$0
Bath County 2	D1	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	90.58	6.34	9/17/2014 15:30	9/21/2014 10:05	35.0	3,170.4	$0
Bath County 2	U1	The unit is forced due to the exciter locked up and will not give permissive to start. Incremental cost occurred to 67833795	7.82	7.82	9/21/2014 10:03	9/21/2014 17:52	500.0	3,908.5	$1
Bath County 2	D1	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	510.15	35.50	9/21/2014 17:52	10/13/2014 0:01	35.0	17,855.3	$0
Bath County 2	U1	The unit tripped off line as a condenser. No incremental cost occurred.	2.95	2.95	9/23/2014 5:28	9/23/2014 8:25	500.0	1,475.0	$0
Bath County 2	MO	Due to a design issue the dowels in the upper guide bearing support need to be inspected. Incremental cost occurred to 67839650	94.23	94.23	10/13/2014 0:01	10/16/2014 22:15	500.0	47,116.5	$11
Bath County 2	D1	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	104.62	7.32	10/16/2014 22:15	10/21/2014 6:52	35.0	3,661.6	$0
Bath County 2	MO	Transformer bank 1-2 needed to be de-energized to permit low side switching. No incremental cost occurred.	0.63	0.63	10/21/2014 6:52	10/21/2014 7:30	500.0	316.5	$0
Bath County 2	D1	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	56.32	3.94	10/21/2014 7:30	10/23/2014 15:49	35.0	1,971.1	$0
Bath County 2	MO	Transformer bank 1-2 needed to be de-energized to permit low side switching. No incremental cost occurred.	0.98	0.98	10/23/2014 15:49	10/23/2014 16:48	500.0	491.5	$0
Bath County 2	D1	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	103.22	7.23	10/23/2014 16:48	10/28/2014 0:01	35.0	3,612.6	$0
Bath County 2	MO	The units intermediate guide bearing vibration is running high. Incremental cost occurred to 67808984	32.98	32.98	10/28/2014 0:01	10/29/2014 9:00	500.0	16,491.5	$1
Bath County 2	PD	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	112.02	7.84	10/29/2014 9:00	11/3/2014 0:01	35.0	3,920.6	$0
Bath County 2	MO	The units intermediate guide bearing vibration is running high. Incremental cost occurred to 67808984	93.55	93.55	11/3/2014 0:01	11/6/2014 21:34	500.0	46,775.0	$0
Bath County 2	PD	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	369.43	25.86	11/6/2014 21:34	11/22/2014 7:00	35.0	12,930.2	$0
Bath County 2	MO	Due to the Cloverdale to Jackson Ferry line being out the station is curtailed to 1 pump and 1 generator. No incremental cost occurred.	106.00	106.00	11/22/2014 7:00	11/26/2014 17:00	500.0	53,000.0	$0
Bath County 2	PD	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	156.00	10.92	11/26/2014 17:00	12/3/2014 5:00	35.0	5,460.0	$0
Bath County 2	MO	500kv breaker H1TH3 was due an overhaul. No incremental cost occurred.	39.63	39.63	12/3/2014 5:00	12/4/2014 20:38	500.0	19,816.5	$0
Bath County 2	PD	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	205.37	14.38	12/4/2014 20:38	12/13/2014 10:00	35.0	7,187.8	$0
Bath County 2	MO	Commission testing was required for the station EG and Sub-station upgrade project. Incremental cost occurred to 54193.1.3	6.17	6.17	12/13/2014 10:00	12/13/2014 16:10	500.0	3,083.5	$0
Bath County 2	PD	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	88.92	6.22	12/13/2014 16:10	12/17/2014 9:05	35.0	3,112.1	$0
Bath County 2	MO	Commission testing was required for the station EG and Sub-station upgrade project. Incremental cost occurred to 54193.1.3	4.85	4.85	12/17/2014 9:05	12/17/2014 13:56	500.0	2,425.0	$0

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Bath County 2	PD	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred	346.07	24.23	12/17/2014 13:56		35.0	12,112.3	$0
Bath County 3	NC	The unit failed to start as pump. No incremental cost occurred.	0.27	-	1/10/2014 22:44	1/10/2014 23:00	-	-	$0
Bath County 3	MO	All units had to be off line to change out computer equipment to replace PCAMS. No incremental cost occurred.	0.97	0.97	1/31/2014 12:00	1/31/2014 12:58	502.3	485.7	$0
Bath County 3	MO	Due to transmission work on the station is curtailed to 4 generators and 4 pumps. No incremental cost occurred.	295.15	295.15	2/6/2014 10:45	2/18/2014 17:54	502.3	148,253.8	$0
Bath County 3	NC	The unit failed to start as a pump. No incremental cost occurred.	0.17	-	2/22/2014 23:20	2/22/2014 23:30	-	-	$0
Bath County 3	NC	The unit failed to start as a pump. No incremental cost occurred.	0.17	-	2/24/2014 0:05	2/24/2014 0:15	-	-	$0
Bath County 3	NC	The unit failed to start as a pump. No incremental cost occurred.	0.17	-	2/26/2014 22:56	2/26/2014 23:06	-	-	$0
Bath County 3	MO	Due to transmission work on the station is curtailed to 4 generators and 4 pumps. No incremental cost occurred.	252.68	252.68	2/27/2014 9:19	3/9/2014 23:00	502.3	126,922.7	$0
Bath County 3	NC	The unit failed to start as a pump. No incremental cost occurred.	0.17	-	3/10/2014 13:46	3/10/2014 13:56	-	-	$0
Bath County 3	NC	The unit failed to start as a pump. No incremental cost occurred.	0.17	-	3/14/2014 12:57	3/14/2014 13:07	-	-	$0
Bath County 3	NC	The unit failed to start as a pump. No incremental cost occurred.	0.17	-	3/14/2014 22:16	3/14/2014 22:26	-	-	$0
Bath County 3	MO	Due to transmission work on the station is curtailed to 4 generators and 4 pumps. No incremental cost occurred.	48.00	48.00	3/18/2014 0:00	3/20/2014 0:00	502.3	24,110.4	$0
Bath County 3	NC	The unit failed to start as a pump. No incremental cost occurred.	0.17	-	3/20/2014 13:35	3/20/2014 13:45	-	-	$0
Bath County 3	NC	The unit failed to start as a condenser. No incremental cost occurred.	0.17	-	3/20/2014 14:07	3/20/2014 14:17	-	-	$0
Bath County 3	NC	Due to the 548 line being out the station is curtailed to 3 generators and 2 pumps. No incremental cost occurred.	22.58	-	4/1/2014 23:31	4/2/2014 22:06	-	-	$0
Bath County 3	NC	Due to the 548 line being out the station is curtailed to 3 generators and 2 pumps. No incremental cost occurred.	23.80	-	4/3/2014 23:13	4/4/2014 23:01	-	-	$0
Bath County 3	MO	Testing 548 lines SPS. No incremental cost occurred.	3.00	3.00	4/5/2014 11:00	4/5/2014 14:00	502.0	1,506.0	$0
Bath County 3	NC	Due to the 548 line being out the station is curtailed to 3 generators and 2 pumps. No incremental cost occurred.	0.25	-	4/5/2014 15:56	4/5/2014 16:11	-	-	$0
Bath County 3	PO	Power Tunnel inspection was due. Incremental cost occurred to FBC3.11.	1,144.08	1,144.08	4/12/2014 0:01	5/29/2014 16:06	502.0	574,329.7	$323
Bath County 3	PO	Power Tunnel inspection was due. Incremental cost occurred to FVC3.11	14.82	14.82	5/29/2014 20:27	5/30/2014 11:16	502.0	7,438.1	$0
Bath County 3	PO	Power Tunnel inspection was due. Incremental cost occurred to FVC3.11	3.07	3.07	5/30/2014 19:40	5/30/2014 22:44	502.0	1,539.6	$0
Bath County 3	MO	A switchyard 500kv breaker was due an overhaul. No incremental cost occurred.	78.67	78.67	6/2/2014 7:00	6/5/2014 13:40	502.0	39,490.8	$0
Bath County 3	MO	The emergency buss auto transfer PM was due. No incremental cost occurred.	1.30	1.30	8/3/2014 10:00	8/3/2014 11:18	502.0	652.6	$0
Bath County 3	NC	The unit failed to start as a pump due to 3-DA-POV-2 failing to open. Incremental cost occurred to 67824697	0.05	-	9/1/2014 23:02	9/1/2014 23:05	-	-	$1
Bath County 3	NC	The unit was forced as a pump due to 3-DA-POV-2 failing to open. Incremental cost occurred to 67824697	13.05	-	9/1/2014 23:05	9/2/2014 12:08	-	-	$0
Bath County 3	PD	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	1,676.02	123.53	9/8/2014 5:00	11/17/2014 0:01	37.0	62,012.6	$0
Bath County 3	PO	The semi-annual generator inspection was due. Incremental cost occurred to 14F3.1	84.23	84.23	11/17/2014 0:01	11/20/2014 12:15	502.0	42,285.0	$12
Bath County 3	PD	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	93.73	6.91	11/20/2014 12:15	11/24/2014 9:59	37.0	3,468.1	$0
Bath County 3	MO	Due to the Cloverdale to Jackson Ferry line being out the station is curtailed to 1 pump and 1 generator. No incremental cost occurred.	55.02	55.02	11/24/2014 9:59	11/26/2014 17:00	502.0	27,618.5	$0
Bath County 3	PD	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	401.00	29.56	11/26/2014 17:00	12/13/2014 10:00	37.0	14,837.0	$0
Bath County 3	NC	Due to transmission curtailments the station is curtailed to 4 generators and 3 pumps. No incremental cost occurred.	3.92	-	11/28/2014 0:15	11/28/2014 4:10	-	-	$0
Bath County 3	NC	Due to transmission curtailments the station is curtailed to 4 generators and 3 pumps. No incremental cost occurred.	5.12	-	11/30/2014 1:58	11/30/2014 7:05	-	-	$0
Bath County 3	MO	Commission testing was required for the station EG and Sub-station upgrade project. Incremental cost occurred to 54193.1.3	6.17	6.17	12/13/2014 10:00	12/13/2014 16:10	502.0	3,095.8	$0
Bath County 3	PD	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	55.85	4.12	12/13/2014 16:10	12/16/2014 0:01	37.0	2,066.5	$0
Bath County 3	MO	The intermediate guide bearings temperature is treading up. Incremental cost occurred to WBS#50754	59.77	59.77	12/16/2014 0:01	12/18/2014 11:47	502.0	30,003.0	$0
Bath County 3	PD	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred	324.22	23.90	12/18/2014 11:47		37.0	11,996.0	$0
Bath County 4	MO	All units had to be off line to change out computer equipment to replace PCAMS. No incremental cost occurred.	0.97	0.97	1/31/2014 12:00	1/31/2014 12:58	501.3	484.8	$0
Bath County 4	MO	Due to transmission work on the station is curtailed to 2 generators and 2 pumps. No incremental cost occurred.	6.87	6.87	2/3/2014 9:30	2/3/2014 16:22	501.3	3,442.4	$0
Bath County 4	U1	The cooling water MOV sensor failed. Incremental cost occurred to 67750230	42.25	42.25	2/22/2014 16:25	2/24/2014 10:40	501.3	21,179.9	$0
Bath County 4	MO	Due to transmission work on the station is curtailed to 4 generators and 4 pumps. No incremental cost occurred.	70.65	70.65	2/24/2014 10:40	2/27/2014 9:19	501.3	35,416.8	$0
Bath County 4	NC	Due to the 548 line being out the station is curtailed to 3 generators and 2 pumps. No incremental cost occurred.	46.80	-	3/30/2014 13:33	4/1/2014 12:21	-	-	$0
Bath County 4	NC	Due to the 548 line being out the station is curtailed to 3 generators and 2 pumps. No incremental cost occurred.	9.15	-	4/1/2014 12:21	4/1/2014 21:30	-	-	$0
Bath County 4	MO	Testing 548 lines SPS. No incremental cost occurred.	3.00	3.00	4/5/2014 11:00	4/5/2014 14:00	500.0	1,500.0	$0
Bath County 4	PO	Power Tunnel inspection was due. Incremental cost occurred to FBC4.12.	625.45	625.45	4/12/2014 0:01	5/8/2014 1:28	500.0	312,725.0	$69
Bath County 4	U1	The high side PT cabinet was not properly closed. No incremental cost was occurred.	4.33	4.33	5/8/2014 7:45	5/8/2014 12:05	500.0	2,166.5	$0
Bath County 4	MO	Transformer bank 3-4 deluge PM was due. No incremental cost occurred.	2.50	2.50	5/21/2014 9:00	5/21/2014 11:30	500.0	1,250.0	$0
Bath County 4	MO	Unit 3 Megawatt meter was reading incorrectly. No incremental cost occurred.	3.07	3.07	5/30/2014 19:40	5/30/2014 22:44	500.0	1,533.5	$0
Bath County 4	MO	A switchyard 500kv breaker was due an overhaul. No incremental cost occurred.	78.67	78.67	6/2/2014 7:00	6/5/2014 13:40	500.0	39,333.5	$0
Bath County 4	NC	The unit failed to start as a pump due to not venting. No incremental cost occurred.	0.08	-	6/12/2014 0:29	6/12/2014 0:34	-	-	$0
Bath County 4	NC	The unit failed to start as a pump due to the inlet valve sequence cam slipping. No incremental cost occurred.	0.08	-	6/23/2014 23:16	6/23/2014 23:21	-	-	$0
Bath County 4	U1	The by-pass line actuator was leaking oil. Incremental cost occurred to 67805079.	4.00	4.00	7/8/2014 7:19	7/8/2014 11:19	500.0	2,000.0	$1

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2014 Power Generation Outage Report
(Fossil & Hydro)

Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2014 Dates Start	2014 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Bath County 4	MO	The emergency buss auto transfer PM was due. No incremental cost occurred.	1.30	1.30	8/3/2014 10:00	8/3/2014 11:18	500.0	650.0	$0
Bath County 4	U1	The unit tripped off line due to a low oil level indication for the turbine bearing. No incremental cost was occurred.	1.23	1.23	8/5/2014 18:50	8/5/2014 20:04	500.0	616.5	$0
Bath County 4	D1	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	763.02	53.41	9/8/2014 5:00	10/10/2014 0:01	35.0	26,705.6	$0
Bath County 4	PO	Pre-peak season generator is due. Incremental cost occurred to FBC4.12	568.98	568.98	10/12/2014 0:01	11/4/2014 16:00	500.0	284,491.5	$0
Bath County 4	PD	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	391.00	27.37	11/6/2014 0:00	11/22/2014 7:00	35.0	13,685.0	$0
Bath County 4	NC	Failed Pump Start due to POV-6 failing to open. No incremental cost occurred.	0.08	-	11/12/2014 23:57	11/13/2014 0:02	-	-	$0
Bath County 4	MO	Due to the Cloverdale to Jackson Ferry line being out the station is curtailed to 1 pump and 1 generator. No incremental cost occurred.	106.00	106.00	11/22/2014 7:00	11/26/2014 17:00	500.0	53,000.0	$0
Bath County 4	PD	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	103.02	7.21	11/26/2014 17:00	12/1/2014 0:01	35.0	3,605.6	$0
Bath County 4	NC	Due to transmission curtailments the station is curtailed to 4 generators and 3 pumps. No incremental cost occurred.	31.25	-	11/26/2014 17:00	11/28/2014 0:15	-	-	$0
Bath County 4	NC	Due to transmission curtailments the station is curtailed to 4 generators and 3 pumps. No incremental cost occurred.	45.80	-	11/28/2014 4:10	11/30/2014 1:58	-	-	$0
Bath County 4	NC	Due to transmission curtailments the station is curtailed to 4 generators and 3 pumps. No incremental cost occurred.	16.93	-	11/30/2014 7:05	12/1/2014 0:01	-	-	$0
Bath County 4	MO	The baker coupling gasket is leaking. Incremental cost occurred to 67198811	69.48	69.48	12/1/2014 0:01	12/3/2014 21:30	500.0	34,741.5	$3
Bath County 4	PD	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	674.50	47.22	12/3/2014 21:30	2/5/2015 9:00	35.0	23,607.5	$0
Bath County 4	NC	The depression air selector switch needed to be replaced. Incremental cost occurred to 67863868	5.67	-	12/17/2014 9:05	12/17/2014 14:45	-	-	$0
Bath County 5	PO	Due to cracking the rotor needed to be replaced. Incremental cost occurred to 13F5.2	705.20	705.20	12/1/2013 0:01	1/30/2014 9:12	503.2	354,856.6	$29
Bath County 5	PO	Due to cracking the rotor needed to be replaced. Incremental cost occurred to 13F5.2	9.43	9.43	1/30/2014 12:49	1/30/2014 22:15	503.2	4,746.7	$0
Bath County 5	PO	Due to cracking the rotor needed to be replaced. Incremental cost occurred to 13F5.2	0.27	0.27	1/31/2014 5:30	1/31/2014 5:46	503.2	134.4	$0
Bath County 5	PO	Due to cracking the rotor needed to be replaced. Incremental cost occurred to 13F5.2	85.43	85.43	1/31/2014 9:08	2/3/2014 22:34	503.2	42,989.9	$0
Bath County 5	PO	Due to cracking the rotor needed to be replaced. Incremental cost occurred to 13F5.2	46.63	46.63	2/4/2014 17:22	2/6/2014 16:00	503.2	23,465.7	$0
Bath County 5	MO	Due to transmission work on the station is curtailed to 4 generators and 4 pumps. No incremental cost occurred.	384.40	384.40	2/6/2014 16:01	2/22/2014 16:25	503.2	193,430.1	$0
Bath County 5	U1	Switchyard disconnect H355M was being opened for breaker isolation, this caused a transient current situation that tripped Unit 5. No incremental cost occurred.	1.15	1.15	3/10/2014 6:05	3/10/2014 7:14	503.2	578.7	$0
Bath County 5	PO	Unit 5 G/M breaker poles needed to be changed out. Incremental cost occurred to 14S5.1	425.10	425.10	3/22/2014 0:01	4/8/2014 17:07	503.2	213,910.3	$43
Bath County 5	NC	The unit failed to start as a condenser due to operator error. No incremental cost occurred.	0.17	-	4/13/2014 8:50	4/13/2014 9:00	-	-	$0
Bath County 5	NC	Due to transmission work the station is curtailed to 4 generators and 3 pumps. No incremental cost occurred.	4.25	-	4/14/2014 15:39	4/14/2014 19:54	-	-	$0
Bath County 5	NC	Due to transmission work the station is curtailed to 4 generators and 3 pumps. No incremental cost occurred.	8.62	-	4/14/2014 22:14	4/15/2014 6:51	-	-	$0
Bath County 5	U1	When lightning struck the 547 line the C-phase of transformer bank 5-6 faulted, tripping the unit. Incremental cost occurred to	268.77	268.77	4/25/2014 13:30	5/6/2014 18:16	501.0	134,652.3	$0
Bath County 5	MO	Due to loss of power to the unit the intermediate guide bearings wiped. Incremental cost occurred to 67774569.	22.73	22.73	5/6/2014 18:16	5/7/2014 17:00	501.0	11,389.2	$128
Bath County 5	MO	The intermediate guide bearing vibration is running high. No incremental cost occurred.	9.90	9.90	5/29/2014 8:00	5/29/2014 17:54	501.0	4,959.9	$0
Bath County 5	MO	The intermediate guide bearing vibration is running high. No incremental cost occurred.	12.35	12.35	5/30/2014 12:00	5/31/2014 0:21	501.0	6,187.4	$0
Bath County 5	MO	The emergency buss auto transfer PM was due. No incremental cost occurred.	1.30	1.30	8/3/2014 10:00	8/3/2014 11:18	501.0	651.3	$0
Bath County 5	MO	The high side PT C-phase was reading incorrectly. Incremental cost occurred to 67822310.	3.38	3.38	8/24/2014 10:00	8/24/2014 13:23	501.0	1,694.9	$1
Bath County 5	D1	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	98.00	7.04	9/8/2014 5:00	9/12/2014 7:00	36.0	3,528.0	$0
Bath County 5	MO	Due to 500 kv breaker work at the station, the station was curtailed to 3 generators and 2 pumps. No incremental cost occurred.	6.00	6.00	9/12/2014 7:00	9/12/2014 13:00	501.0	3,006.0	$0
Bath County 5	D1	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	563.02	40.46	9/12/2014 13:00	10/6/2014 0:01	36.0	20,268.6	$0
Bath County 5	PO	The semi-annual generator inspection was due. Incremental cost occurred to 14F5.1	68.23	68.23	10/6/2014 0:01	10/8/2014 20:15	501.0	34,184.7	$0
Bath County 5	PD	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	1,067.75	76.73	10/8/2014 20:15	11/22/2014 7:00	36.0	38,439.0	$11
Bath County 5	MO	Due to the Cloverdale to Jackson Ferry line being out the station is curtailed to 1 pump and 1 generator. No incremental cost occurred.	50.98	50.98	11/22/2014 7:00	11/24/2014 9:59	501.0	25,542.5	$0
Bath County 5	PD	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	211.02	15.16	11/24/2014 9:59	12/3/2014 5:00	36.0	7,596.6	$0
Bath County 5	MO	500kv breaker H1TH3 was due an overhaul. No incremental cost occurred.	39.63	39.63	12/3/2014 5:00	12/4/2014 20:38	501.0	19,856.1	$0
Bath County 5	PD	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	110.37	7.93	12/4/2014 20:38	12/9/2014 11:00	36.0	3,973.2	$0
Bath County 5	MO	The manual shaft seal reading was not matching the reading on the DCS. No incremental cost occurred.	1.00	1.00	12/9/2014 11:00	12/9/2014 12:00	501.0	501.0	$0
Bath County 5	PD	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	540.00	38.80	12/9/2014 12:00	2/1/2015 0:01	36.0	19,440.0	$0
Bath County 5	NC	The depression air selector switch needed to be replaced. Incremental cost occurred to 67863868	5.67	-	12/17/2014 9:05	12/17/2014 14:45	-	-	$0
Bath County 8	MO	Due to low side switching transformer bank 5-6 had to be de-energized. No incremental cost occurred.	1.32	1.32	1/26/2014 9:00	1/26/2014 10:19	504.0	666.8	$0

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2014 Power Generation Outage Report
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Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2014 Dates Start	2014 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Bath County 6	MO	All units had to be off line to change out computer equipment to replace PCAMS. No incremental cost occurred.	0.97	0.97	1/31/2014 12:00	1/31/2014 12:58	504.0	487.4	$0
Bath County 6	MO	Due to transmission work on the station is curtailed to 2 generators and 2 pumps. No incremental cost occurred.	6.87	6.87	2/3/2014 9:30	2/3/2014 16:22	504.0	3,461.0	$0
Bath County 6	MO	Due to transmission work on the station is curtailed to 4 generators and 4 pumps. No incremental cost occurred.	94.93	94.93	2/18/2014 17:54	2/22/2014 16:50	504.0	47,846.2	$0
Bath County 6	MO	Due to transmission work on the station is curtailed to 4 generators and 4 pumps. No incremental cost occurred.	96.00	96.00	3/14/2014 0:00	3/18/2014 0:00	504.0	48,384.0	$0
Bath County 6	MO	Due to transmission work on the station is curtailed to 4 generators and 4 pumps. No incremental cost occurred.	44.60	44.60	3/20/2014 0:00	3/21/2014 20:36	504.0	22,478.4	$0
Bath County 6	MO	Unit 5's TR disconnect needed to be opened for isolation purposes. No incremental cost occurred.	1.20	1.20	3/22/2014 9:00	3/22/2014 10:12	504.0	604.8	$0
Bath County 6	PO	Transformer bank 5-6 PMs were due. Incremental cost occurred to 14S6.1	232.78	232.78	3/30/2014 0:01	4/8/2014 16:48	504.0	117,322.6	$36
Bath County 6	MO	Due to transmission work the station is curtailed to 3 generators and 3 pumps. No incremental cost occurred.	27.47	27.47	4/16/2014 14:30	4/17/2014 17:58	500.0	13,733.5	$0
Bath County 6	U1	When lightning struck the 547 line the C-phase of transformer bank 5-6 faulted, tripping the unit. Incremental cost occurred to	268.77	268.77	4/25/2014 13:30	5/6/2014 18:16	500.0	134,383.5	$0
Bath County 6	MO	The emergency buss auto transfer PM was due. No incremental cost occurred.	1.30	1.30	8/3/2014 10:00	8/3/2014 11:18	500.0	650.0	$0
Bath County 6	MO	Unit 5 high side PT was reading incorrectly to work on this transformer bank 5-6 needed to be de-energized. Incremental cost occurred to 67822310.	3.38	3.38	8/24/2014 10:00	8/24/2014 13:23	500.0	1,691.5	$0
Bath County 6	PO	The design of the rotor is causing cracking. Incremental cost occurred to 14F6.1	1,601.55	1,601.55	9/7/2014 0:01	11/12/2014 16:34	500.0	800,775.0	$69
Bath County 6	PD	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	121.28	8.49	11/12/2014 16:34	11/17/2014 17:51	35.0	4,244.9	$0
Bath County 6	PO	The design of the rotor is causing cracking. Incremental cost occurred to 14F6.1	50.90	50.90	11/17/2014 17:51	11/19/2014 20:45	500.0	25,450.0	$0
Bath County 6	PD	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	12.23	0.86	11/19/2014 20:45	11/20/2014 8:59	35.0	428.2	$0
Bath County 6	PO	The design of the rotor is causing cracking. Incremental cost occurred to 14F6.1	32.08	32.08	11/20/2014 8:59	11/21/2014 17:04	500.0	16,041.5	$0
Bath County 6	PD	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	13.93	0.98	11/21/2014 17:04	11/22/2014 7:00	35.0	487.7	$0
Bath County 6	MO	Due to the Cloverdale to Jackson Ferry line being out the station is curtailed to 1 pump and 1 generator. No incremental cost occurred.	106.00	106.00	11/22/2014 7:00	11/26/2014 17:00	500.0	53,000.0	$0
Bath County 6	NC	Due to transmission work the station was curtailed to 4 generators and 3 pumps. No incremental cost occurred.	103.02	-	11/26/2014 17:00	12/1/2014 0:01	-	-	$0
Bath County 6	MO	The unit returned from it's rotor replacement outage with high vibration. Incremental cost occurred to WBS50754.1.5	35.60	35.60	12/1/2014 0:01	12/2/2014 11:37	500.0	17,800.0	$0
Bath County 6	PD	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	17.38	1.22	12/2/2014 11:37	12/3/2014 5:00	35.0	608.4	$0
Bath County 6	MO	500kv breaker H1TH3 was due an overhaul. No incremental cost occurred.	39.63	39.63	12/3/2014 5:00	12/4/2014 20:38	500.0	19,816.5	$0
Bath County 6	PD	Due to the 555, Lexington to Dooms, line being out of service the units cannot generate above 465 MWs. No incremental cost occurred.	651.37	45.60	12/4/2014 20:38	2/2/2015 10:00	35.0	22,797.8	$0
Bath County 6	NC	The depression air selector switch needed to be replaced. Incremental cost occurred to 67863868	5.67	-	12/17/2014 9:05	12/17/2014 14:45	-	-	$0
Bellemeade 1	D1	Work Order 67740071 Bellemeade is derated while burning fuel oil to 233 net MW due to back pressure on both GT 1 and GT 2. The back pressure issues are believed to be a combination of cold temperatures, fuel oil, and SCR degradation.	47.23	6.02	1/6/2014 23:15	1/8/2014 22:29	34.0	1,605.9	$0
Bellemeade 1	D1	Work Order 67733477 Gas Turbine #1tripped during start up at 52 MW. During start up on fuel oil, at approximately 0146 hours on 1/7/2014, GT1 tripped due to a high HP drum level indication.	2.48	1.05	1/7/2014 1:46	1/7/2014 4:15	113.0	280.6	$9
Bellemeade 1	D1	Work Order 67733824 Steam turbine tripped during start up at 26 MW due to low HP Steam Pressure indication.	1.45	0.56	1/7/2014 6:17	1/7/2014 7:44	103.0	149.4	$0
Bellemeade 1	D1	Work Order 67733479 At approximately 0636 on 01/08/2014 Gas Turbine #1 tripped off line. The trip was initiated by an Exhaust Pressure > MAX condition which activates at a Turbine Back Pressure of 28 WC increasing.	3.15	1.33	1/8/2014 6:36	1/8/2014 9:45	113.0	356.0	$0
Bellemeade 1	D1	Work Order 67740071 Bellemeade is derated while burning fuel oil to 233 net MW due to back pressure on both GT 1 and GT 2. The back pressure issues are believed to be a combination of cold temperatures, fuel oil, and SCR degradation.	67.15	8.55	1/21/2014 22:15	1/24/2014 17:24	34.0	2,283.1	$0
Bellemeade 1	D1	WO 67737469 Gas Turbine #1 tripped off line due to a high level in the fuel oil centrifugal extractor.	4.78	2.20	1/22/2014 9:28	1/22/2014 14:15	123.0	588.3	$0
Bellemeade 1	D1	Work Order 67740071 Bellemeade is derated while burning fuel oil to 188 net MW due to back pressure on both GT 1 and GT 2. The back pressure issues are believed to be a combination of cold temperatures, fuel oil, and SCR degradation.	23.07	6.83	1/24/2014 17:24	1/25/2014 16:28	79.0	1,822.3	$0
Bellemeade 1	D1	Work Order 67739205 Gas Turbine #2 was not able to start due to a faulty level switch in the GT2 level C extractor sump.	4.18	1.38	1/25/2014 8:15	1/25/2014 12:26	88.0	368.1	$0
Bellemeade 1	U1	Bellemeade was brought offline at 1619 hours due to low fuel oil inventory. This was a management decision and was done in a controlled manner in order to avoid a unit trip due to loss of suction.	7.53	7.53	1/25/2014 16:28	1/26/2014 0:00	267.0	2,011.3	$0
Bellemeade 1	D1	Work Order 67740071 Bellemeade is derated while burning fuel oil to 250 net MW due to back pressure on both GT 1 and GT 2. The back pressure issues are believed to be a combination of cold temperatures, fuel oil, and SCR degradation.	65.72	4.18	1/27/2014 18:15	1/30/2014 11:58	17.0	1,117.2	$0
Bellemeade 1	D1	Work Order 67740072 During start up Gas Turbine #2 failed to start due to on lack of acceleration	4.32	2.43	1/28/2014 15:15	1/28/2014 19:34	150.0	647.6	$0
Bellemeade 1	D1	Work Order 67739205 Gas Turbine #2 tripped off line due to a high level in the fuel oil centrifugal extractor.	2.72	1.53	1/28/2014 19:39	1/28/2014 22:22	150.0	407.6	$0
Bellemeade 1	D1	Work Order 67740072 During start up Gas Turbine #2 failed to start due to on lack of acceleration	6.67	3.75	1/29/2014 16:20	1/29/2014 23:00	150.0	1,000.1	$0
Bellemeade 1	D1	Work order 67740694 While off line Bellemeade Gas Turbine #1 was placed on a forced derate for a IP Drum door leak. The east IP drum door was leaking after the gas turbine shutdown and had reduced pressure.	8.03	4.42	1/30/2014 15:30	1/30/2014 23:32	147.0	1,180.9	$0
Bellemeade 1	D1	WO 67756808 Bellemeade was unable to meet its dispatch of 224 nMW by 1100 hrs this morning due to a failed limit switch in the Steam Turbine main steam stop valve which prevented the unit from starting.	2.18	0.88	3/3/2014 11:00	3/3/2014 13:11	107.0	233.6	$0
Bellemeade 1	D1	Work Order 67740071 Bellemeade was derated while burning fuel oil to 250 net MW due to back pressure on both GT1 and GT2. The backpressure is believed to be a combination of cold temperatures, fuel oil, and SCR degradation.	48.82	3.11	3/3/2014 13:11	3/5/2014 14:00	17.0	829.9	$0

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2014 Power Generation Outage Report
(Fossil & Hydro)

Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2014 Dates Start	2014 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Bellemeade 1	D1	Work Order 67740071 Bellemeade was derated while burning fuel oil to 250 net MW due to back pressure on both GT1 and GT2. The backpressure is believed to be a combination of cold temperatures, fuel oil, and SCR degradation.	16.08	1.02	3/24/2014 8:15	3/25/2014 0:20	17.0	273.4	$0
Bellemeade 1	D1	Work Order 67740071 Bellemeade was derated while burning fuel oil to 250 net MW due to back pressure on both GT1 and GT2. The backpressure is believed to be a combination of cold temperatures, fuel oil, and SCR degradation.	23.90	1.52	3/26/2014 1:15	3/27/2014 1:09	17.0	406.3	$0
Bellemeade 1	PO	Spring Planned Outage	634.23	634.23	4/26/2014 0:00	5/22/2014 10:14	267.0	169,340.2	$1,534
Bellemeade 1	PO	Spring Planned Outage	2.82	2.82	5/22/2014 11:26	5/22/2014 14:15	267.0	752.1	$0
Bellemeade 1	D4	Scheduled derate to repair a failed gasket in the GT#1 steam injection stop valve.	8.83	3.54	5/30/2014 6:00	5/30/2014 14:50	107.0	945.1	$0
Bellemeade 1	D1	Bellemeade steam turbine was manually tripped off line at 43 mw during start-up due to not being able to control level in the hotwell.	4.47	2.36	6/2/2014 8:58	6/2/2014 13:26	141.0	629.8	$0
Bellemeade 1	D1	Bellemeade Steam Turbine was unable to start due to a broken wire on the steam turbine drains tank level switch holding a trip on the turbine.	5.05	3.35	6/16/2014 8:05	6/16/2014 13:08	177.0	893.9	$0
Bellemeade 1	D4	Gas Turbine #1 was placed on a Maintenance Derate to test MVAR indication.	3.90	2.15	6/25/2014 7:00	6/25/2014 10:54	147.0	573.3	$0
Bellemeade 1	U1	Work Order 67828559 The unit was shut down to inspect both HRSG Exhaust stacks due to the liberation of a piece of the interior liner from HRSG2	23.38	23.38	9/5/2014 0:36	9/5/2014 23:59	267.0	6,243.3	$0
Bellemeade 1	MO	Work Order 67828559 MO to inspect the HRSG stacks and repair liner	240.00	240.00	9/5/2014 23:59	9/15/2014 23:59	267.0	64,080.0	$0
Bellemeade 1	ME	Work Order 67828559 extended MO to replace both HRSG Stack Liners	167.55	167.55	9/15/2014 23:59	9/22/2014 23:32	267.0	44,735.9	$0
Bellemeade 1	PO	Bellemeade is in a PO for GT#2 Generator rewind and HRSG #2 roof repairs.	949.23	949.23	10/11/2014 0:00	11/19/2014 12:14	267.0	253,445.2	$1,468
Bellemeade 1	PO	Bellemeade is in a PO for GT#2 Generator rewind and HRSG #2 roof repairs.	3.43	3.43	11/19/2014 13:48	11/19/2014 17:14	267.0	916.6	$0
Bellemeade 1	PO	Bellemeade is in a PO for GT#2 Generator rewind and HRSG #2 roof repairs.	28.15	28.15	11/19/2014 19:50	11/20/2014 23:59	267.0	7,516.1	$0
Bellemeade 1	U1	Gas Turbine #1 was unavailable due to issues with the fuel oil nozzle sticking.	10.27	10.27	11/20/2014 23:59	11/21/2014 10:15	267.0	2,741.3	$0
Bellemeade 1	D4	Bellemeade is in a Planned Derate for GT#2 Generator rewind.	643.30	341.41	11/20/2014 23:59	12/17/2014 19:17	144.0	92,635.2	$0
Bellemeade 1	D4	Bellemeade is in a Planned Derate for GT#2 Generator rewind.	131.18	70.75	12/17/2014 22:59	12/23/2014 10:10	144.0	18,890.4	$0
Bellemeade 1	D4	Bellemeade is in a Planned Derate for GT#2 Generator rewind.	171.52	92.50	12/23/2014 10:44	12/30/2014 14:15	144.0	24,698.4	$0
Bremo 3	PO	Gas Conversion	1,840.32	1,840.32	9/10/2013 0:00	3/18/2014 17:19	71.0	130,662.5	$647
Bremo 3	PO	Gas Conversion	100.98	100.98	3/18/2014 20:40	3/23/2014 1:39	71.0	7,169.8	$0
Bremo 3	PO	Gas Conversion	82.18	82.18	3/25/2014 21:36	3/29/2014 7:47	71.0	5,835.0	$0
Bremo 3	PO	Gas Conversion	224.48	224.48	4/4/2014 20:20	4/14/2014 4:49	71.0	15,938.3	$0
Bremo 3	PO	Gas Conversion	237.08	237.08	4/15/2014 19:40	4/25/2014 16:45	71.0	16,832.9	$0
Bremo 3	PO	Gas Conversion	117.40	117.40	4/26/2014 13:12	5/1/2014 10:36	71.0	8,335.4	$0
Bremo 3	U1	Economizer Tube Leak. Order # 67773287	66.27	66.27	5/22/2014 8:53	5/25/2014 3:09	71.0	4,705.0	$6
Bremo 3	D1	Ignitor Trip Valve Failed Closed -	35.00	4.93	5/27/2014 11:00	5/28/2014 22:00	10.0	350.0	$0
Bremo 3	U1	Electrical Storm caused main gas valve (0-FG-MOV-1) trip.	6.57	6.57	6/19/2014 18:59	6/20/2014 1:33	71.0	466.3	$0
Bremo 3	MO	Tube Leak at old weld. Order # 67814418	47.62	47.62	8/5/2014 7:00	8/7/2014 6:37	71.0	3,380.8	$6
Bremo 3	MO	Economizer tube leak (SCC 33 Event Order 67842807)	38.68	38.68	10/14/2014 23:57	10/16/2014 14:38	71.0	2,746.5	$1
Bremo 3	PO	Boiler Steam Drum Riser Tube Inspection	291.77	291.77	11/1/2014 0:01	11/13/2014 2:47	71.0	20,715.5	$0
Bremo 3	D1	New Gas Line Silencer is reducing gas flow	13.83	6.04	11/13/2014 2:47	11/13/2014 16:37	31.0	428.8	$0
Bremo 3	MO	Gas Line Silencer Screen Removal	13.95	13.95	11/15/2014 0:34	11/15/2014 14:31	71.0	990.5	$0
Bremo 4	PO	Gas Conversion	2,148.92	2,148.92	9/10/2013 0:00	3/31/2014 13:55	156.0	335,231.1	$1,061
Bremo 4	PO	Gas Conversion	2.65	2.65	3/31/2014 15:14	3/31/2014 17:53	156.0	413.4	$0
Bremo 4	PO	Gas Conversion	37.88	37.88	3/31/2014 18:24	4/2/2014 8:17	156.0	5,909.7	$0
Bremo 4	PO	Gas Conversion	59.57	59.57	4/4/2014 21:35	4/7/2014 9:09	156.0	9,292.5	$0
Bremo 4	PO	Gas Conversion	69.17	69.17	4/9/2014 23:56	4/12/2014 21:06	156.0	10,790.1	$0
Bremo 4	PO	Gas Conversion	182.53	182.53	4/14/2014 19:31	4/22/2014 10:03	156.0	28,475.1	$0
Bremo 4	PO	Gas Conversion	124.60	124.60	4/25/2014 23:10	5/1/2014 3:46	156.0	19,437.6	$0
Bremo 4	PO	Gas Conversion	900.27	900.27	5/2/2014 11:43	6/8/2014 23:59	156.0	140,441.7	$0
Bremo 4	MO	Gas Conversion	8.83	8.83	6/9/2014 0:00	6/9/2014 8:50	156.0	1,377.9	$0
Bremo 4	MO	Gas Conversion	14.00	14.00	6/9/2014 10:49	6/10/2014 0:49	156.0	2,184.0	$0
Bremo 4	MO	Gas Conversion	21.40	21.40	6/10/2014 6:40	6/11/2014 4:04	156.0	3,338.4	$0
Bremo 4	MO	Gas Conversion	64.37	64.37	6/13/2014 10:34	6/16/2014 2:56	156.0	10,041.3	$0
Bremo 4	MO	Gas Conversion	67.00	67.00	6/17/2014 9:49	6/20/2014 4:49	156.0	10,452.0	$0
Bremo 4	MO	4A APH Drive Gear Failure, WO #67802909	35.30	35.30	7/3/2014 23:52	7/5/2014 11:10	156.0	5,506.8	$3
Bremo 4	MO	U4 Economizer Tube Leak WO #67806687	36.98	36.98	7/12/2014 2:41	7/13/2014 15:40	156.0	5,769.3	$4
Bremo 4	MO	Economizer Tube Leak - Order #67819512	37.53	37.53	8/16/2014 1:38	8/17/2014 15:10	156.0	5,855.1	$0
Bremo 4	PO	Planned Maintenance Outage	241.43	241.43	11/1/2014 0:01	11/11/2014 0:27	156.0	37,663.5	$31
Bremo 4	D1	Fuel Gas Flow to Boiler Restricted by New Flow Silencer	96.12	19.72	11/11/2014 0:27	11/15/2014 0:34	32.0	3,075.7	$0
Bremo 4	MO	Gas Supply Line Silencer Removal	20.80	20.80	11/15/2014 0:34	11/15/2014 21:22	156.0	3,244.8	$0
Chesapeake 1	MO	MO for U1 tube leak WO # 67732429	27.52	27.52	1/11/2014 0:54	1/12/2014 4:25	111.0	3,054.4	$7
Chesapeake 1	NC	U1 turbine valve test (No incremental cost)	0.08	-	2/1/2014 4:07	2/1/2014 4:12	-	-	$0
Chesapeake 1	MO	U1 was removed from service for a 14 day M.O. for ESP inspection and repairs. W.O. 6723250 & 67723252	318.80	318.80	3/15/2014 2:17	3/28/2014 9:05	111.0	35,386.8	$0

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Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2014 Dates Start	2014 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Chesapeake 1	U1	U1 Force Outage was due to a Steam Drum safety valve blowing causing a Start Failure. W.O. 67779263	11.00	11.00	5/8/2014 5:00	5/8/2014 16:00	111.0	1,221.0	$1
Chesapeake 1	SF	U1 A" Main Transformer cooling pumps and fans failed to start. W.O. 67800814"	7.22	7.22	6/11/2014 6:00	6/11/2014 13:13	111.0	801.1	$0
Chesapeake 1	D1	U1 was derated 52 MW due to losing the handstation control output on the A" BFW pump.. W.O. 67805879"	1.72	0.80	7/9/2014 21:09	7/9/2014 22:52	52.0	89.3	$0
Chesapeake 1	D1	U1 51 MW derate was due to A" BFW pump control output backing down to zero "0" causing the CRO to drop load. W.O. 67805879"	1.98	0.91	7/10/2014 15:07	7/10/2014 17:06	51.0	101.1	$0
Chesapeake 1	MO	U1 MO was due to a tube leak in the B" side of the Economizer	13.90	13.90	7/23/2014 0:01	7/23/2014 13:55	111.0	1,542.9	$1
Chesapeake 1	D1	U2 was derated 50 MW due to opacity/PM issues caused by the flyash removal equipment not operating. W.O. 67829157	60.03	27.04	9/6/2014 14:22	9/9/2014 2:24	50.0	3,001.7	$0
Chesapeake 1	D1	U1 B ID Fan motor tripped on overcurrent causing a derate of 57 MW. W.O. 67829654	686.93	314.00	9/9/2014 2:25	10/7/2014 17:21	54.0	37,094.4	$0
Chesapeake 1	MO	U1 Maintenance Outage was for required NERC relay maintenance on breaker T202 and the Reserve Station Service RSS-1 Transformer. W.O 67594461.	41.48	41.48	10/5/2014 23:52	10/7/2014 17:21	111.0	4,604.6	$0
Chesapeake 2	U1	U2 removed from service due tube leaks in the B" furnace. WO #67729419"	41.60	41.60	1/3/2014 23:16	1/5/2014 16:52	111.0	4,617.6	$14
Chesapeake 2	U1	Unit 2 tube leak WO #67735514	34.08	34.08	1/19/2014 10:43	1/20/2014 20:48	111.0	3,783.2	$10
Chesapeake 2	U1	Unit 2 came off-line due to water wall tube leak in North furnace. W.O. 67740703	59.07	59.07	1/31/2014 5:36	2/2/2014 16:40	111.0	6,556.4	$18
Chesapeake 2	U1	U2 tripped on a Black Furnace" Trip."	0.93	0.93	2/3/2014 3:28	2/3/2014 4:24	111.0	103.6	$0
Chesapeake 2	U1	U 2 was forced off-line due to a boiler tube leak in B" Furnace. WO 67743532"	33.27	33.27	2/5/2014 20:44	2/7/2014 6:00	111.0	3,692.6	$48
Chesapeake 2	MO	U2 off-line for scheduled M.O. to repair additional boiler tube leaks and inspect condenser for tube leaks. W.O. 67744412	279.90	279.90	2/7/2014 6:00	2/18/2014 21:54	111.0	31,068.9	$2
Chesapeake 2	MO	Unit 2 was removed from service for a Maintenance Outage due to a tube leak. W.O. 67758949	60.83	60.83	3/15/2014 0:35	3/17/2014 13:25	111.0	6,752.5	$10
Chesapeake 2	D1	Unit 2 was derate 50 MWs due to high particulate matter.	4.98	2.07	3/20/2014 10:48	3/20/2014 15:47	46.0	229.2	$0
Chesapeake 2	MO	Unit 2 scheduled MO was for a ESP inspection & repairs, boiler tube inspection & repair and cleaning condenser tube. W.O. 67744619 & 67744967	670.77	670.77	3/29/2014 0:32	4/25/2014 23:18	111.0	74,455.1	$10
Chesapeake 2	SF	Unit 2 startup was delayed due to a leak in a fuel oil piping flange. W.O. 66445531	3.73	3.73	5/7/2014 5:00	5/7/2014 8:44	111.0	414.4	$5
Chesapeake 2	U1	U2 automatic trip was caused by loss of flame on burner Corner 2 resulting in a Black Furnace Trip. W.O. 66445531	3.00	3.00	6/11/2014 6:47	6/11/2014 9:47	111.0	333.0	$0
Chesapeake 2	D1	U2 derate was due to water pouring down behind control room control panel causing various controls not to respond. W.O. # 67806592	3.75	1.79	7/10/2014 15:56	7/10/2014 19:41	53.0	198.8	$2
Chesapeake 2	U1	U2 was removed from service due to a Curtain wall tube leak in B" Furnace. WO #67821253"	35.38	35.38	8/21/2014 0:19	8/22/2014 11:42	111.0	3,927.5	$3
Chesapeake 2	U1	U2 was removed from service due to a waterall tube leak in A" Furnace	39.48	39.48	8/26/2014 21:14	8/28/2014 12:43	111.0	4,382.6	$0
Chesapeake 2	D1	U2 was derated 25 MW to a net load of 86 MW due to ESP Opacity / PM limitation issues.	28.90	6.51	9/3/2014 1:06	9/4/2014 6:00	25.0	722.5	$0
Chesapeake 2	D1	U2 was derated 56 MW due to opacity/PM issues caused by the flyash removal equipment not operating. W.O. 67829157	87.10	43.94	9/6/2014 14:22	9/10/2014 5:28	56.0	4,877.6	$0
Chesapeake 2	D1	U2 was derated 3 additional megawatts due to the 2A FD fan being removed from service caused by OB bearing excessive vibration. W.O. #67829226	12.15	0.33	9/6/2014 22:04	9/7/2014 10:13	3.0	36.5	$0
Chesapeake 2	NC	U2 Turbine Valve test (No incremental cost).	0.90	-	9/13/2014 0:01	9/13/2014 0:55	-	-	$0
Chesapeake 2	MO	U2 Maintenance Outage was for required NERC relay maintenance on Breaker T202 and Reserve Station Service RSS-1 Transformer. W.O 67594461	41.48	41.48	10/5/2014 23:52	10/7/2014 17:21	111.0	4,604.6	$0
Chesapeake 3	NC	U3 Turbine Valve Test (No incremental cost)	0.62	-	1/11/2014 1:17	1/11/2014 1:54	-	-	$0
Chesapeake 3	D4	37 MW derate for 3C mill maintenance	6.98	1.76	1/21/2014 22:00	1/22/2014 4:59	37.0	258.4	$0
Chesapeake 3	D4	37 MW derate for spring adjustment on 3D mill	9.97	2.51	1/22/2014 22:02	1/23/2014 8:00	37.0	368.8	$0
Chesapeake 3	D1	37 MW derate due to 3D mill not grinding coal and 3A mill being OOS	78.13	19.67	1/23/2014 8:00	1/26/2014 14:08	37.0	2,890.9	$0
Chesapeake 3	NC	U3 Turbine Valve Test (No incremental cost)	1.25	-	1/25/2014 0:00	1/25/2014 1:15	-	-	$0
Chesapeake 3	D4	U3 was scheduled for a 37 MW derate to perform a spring adjust on 3B pulverizer: W.O. 67742194	17.60	4.43	2/5/2014 4:00	2/5/2014 21:36	37.0	651.2	$1
Chesapeake 3	NC	Turbine Valve Test (No incremental cost)	1.28	-	2/8/2014 0:08	2/8/2014 1:25	-	-	$0
Chesapeake 3	D1	Unit 3 was derated 72 MW because 3A FD fan tripped due to fan motor going to ground on B" & "C" phases. WO # 67750084."	108.62	51.72	2/20/2014 16:23	2/25/2014 5:00	70.0	7,603.2	$71
Chesapeake 3	NC	U3 Turbine Valve test (No incremental costs)	0.68	-	2/22/2014 0:30	2/22/2014 1:11	-	-	$0
Chesapeake 3	MO	Unit 3 was removed from service for a scheduled M.O for a ESP inspection and repairs. W.O. # 67750243	80.03	80.03	2/25/2014 5:00	2/28/2014 13:02	147.0	11,764.9	$29
Chesapeake 3	SF	U3 Start Failure was due to taking longer to fill the units' vessels and not meeting PJM on line time .	1.13	1.13	3/1/2014 8:00	3/1/2014 9:08	147.0	166.6	$0
Chesapeake 3	MO	U3 was removed from service for a scheduled Maintenance Outage to repair a tube leak. W.O. 67758958	45.45	45.45	3/18/2014 12:48	3/20/2014 10:15	147.0	6,681.2	$26
Chesapeake 3	D1	U3 was removed from service causing a derated 37 MW to inspected the 3D mill due an abnormal noise. W.O. 67738065	9.20	2.32	3/31/2014 10:30	3/31/2014 19:42	37.0	340.4	$505
Chesapeake 3	MO	U3 MO for tube leak repair WO # 67758958	64.52	64.52	4/2/2014 0:46	4/4/2014 17:17	147.0	9,484.0	$26
Chesapeake 3	SF	Unit 3 start failure due to oil gun issues	14.33	14.33	4/28/2014 2:00	4/28/2014 16:20	147.0	2,107.0	$0
Chesapeake 3	MO	U3 MO for ESP inspection and repairs. WO # 67743973	492.45	492.45	5/3/2014 0:49	5/23/2014 13:16	147.0	72,390.2	$18
Chesapeake 3	D1	U3 Real Power Capacity Testing summer 2014: W.O. 67811914	4,920.98	24.28	6/1/2014 0:01	12/23/2014 0:00	0.8	3,936.8	$0
Chesapeake 3	SF	U3 SF was due to oil guns and ignitors not inserting, igniting, and/or properly operating on the various deck levels. W.O. 66445570	2.27	2.27	6/2/2014 8:00	6/2/2014 10:16	147.0	333.2	$7
Chesapeake 3	D1	U3 was derated 10 MW due to a hole in an expansion joint exiting the air preheater. WO#67789795	12.27	0.85	6/3/2014 10:39	6/3/2014 22:55	10.2	125.1	$3
Chesapeake 3	NC	U3 Turbine valve test (No incremental costs)	1.00	-	6/14/2014 0:01	6/14/2014 1:01	-	-	$0
Chesapeake 3	U1	U3 Force outage was due to a tube leak in the Economizer. W.O. 67795313	31.27	31.27	6/19/2014 7:40	6/20/2014 14:56	147.0	4,596.2	$6
Chesapeake 3	D1	U3 was derated 3 MWs due to high vibration on #1 and #2 bearings. W.O. # 67800815.	456.47	5.31	6/25/2014 13:14	7/14/2014 13:42	2.2	1,004.2	$0
Chesapeake 3	U1	U3 was forced off-line due to a water wall tube leak which caused a High Furnace Pressure" trip. W.O. # 67798799"	101.97	101.97	6/26/2014 22:50	7/1/2014 4:48	147.0	14,989.1	$28
Chesapeake 3	D1	U3 was derated 31 MW due to C" feeder became clogged due to a metal object in the spider. W.O.67806175"	1.93	0.41	7/9/2014 13:30	7/9/2014 15:26	31.0	59.6	$0

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2014 Power Generation Outage Report
(Fossil & Hydro)

Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2014 Dates Start	2014 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Chesapeake 3	D1	U3 was derated 7 MW due to running out of fans causing the furnace O2 to drop below 2% min limitation before achieving full load.	1.92	0.09	7/9/2014 16:22	7/9/2014 18:17	7.0	13.4	$0
Chesapeake 3	NC	U3 Turbine valve test (No incremental cost)	0.70	-	7/12/2014 0:03	7/12/2014 0:45	-	-	$0
Chesapeake 3	U1	U3 forced outage was due to tube leak in the Secondary Superheat on the A" side of the boiler WO # 67807445"	42.30	42.30	7/14/2014 13:42	7/16/2014 8:00	147.0	6,218.1	$7
Chesapeake 3	D1	U3 was derated 10 MWs due to B River Circ Water pump motor failed. WO# 67811807	3,529.00	203.18	7/29/2014 0:00	12/23/2014 0:00	9.2	32,466.8	$0
Chesapeake 3	NC	U3 Turbine valve test (No incremental cost)	0.75	-	8/23/2014 0:51	8/23/2014 1:36	-	-	$0
Chesapeake 3	NC	U3 Turbine Valve test (No incremental cost).	1.48	-	9/6/2014 0:01	9/6/2014 1:30	-	-	$0
Chesapeake 3	D1	U3 was derated 27 MW due to opacity issues caused by flyash equipment problems. W.O. 67829157	34.17	6.28	9/8/2014 15:20	9/10/2014 1:30	27.0	922.5	$0
Chesapeake 3	D1	Unit 3 derated 36 MW due to wet coal issues caused by the feed pipe from feeder to mill being plugged. W.O. 67831900	9.42	2.31	9/15/2014 6:05	9/15/2014 15:30	36.0	339.0	$0
Chesapeake 3	NC	U3 Turbine Valve test (No incremental cost).	0.67	-	9/20/2014 0:01	9/20/2014 0:41	-	-	$0
Chesapeake 3	MO	U3 was removed from service due to a suspected waterwall tube leak in A" furnace	31.18	31.18	9/23/2014 7:20	9/24/2014 14:31	147.0	4,583.9	$0
Chesapeake 3	MO	U3 M. O. was due to Transmission Group removing the Reserve Station Service Transformer 0-EPH-RST-4 which removes the reserve power to the unit while on economy. 67632898	9.00	9.00	11/4/2014 5:00	11/4/2014 14:00	147.0	1,323.0	$0
Chesapeake 3	MO	U3 M. O. was due to Transmission Group removing the Reserve Station Service Transformer 0-EPH-RST-4 which removes the reserve power to the unit while on economy. 67632898	100.78	100.78	11/14/2014 9:30	11/18/2014 14:17	147.0	14,815.1	$3
Chesapeake 3	MO	U3 MO was due to the removal of the Reserve Station Service Transformer #4 by Substation group for Switchyard upgrade. W.O.	141.50	141.50	12/17/2014 2:30	12/23/2014 0:00	147.0	20,800.5	$0
Chesapeake 4	D1	U4 load was derated due opacity issues. W.O. 67203925	12.18	6.30	1/15/2014 8:57	1/15/2014 21:08	107.0	1,303.6	$9
Chesapeake 4	NC	U4 Turbine Valve test (No incremental cost)	2.67	-	1/25/2014 1:19	1/25/2014 3:59	-	-	$0
Chesapeake 4	D1	U4 derated to 160 NMWs due to coal leak on 4D coal mill WO 67740577	10.25	2.33	1/30/2014 9:00	1/30/2014 19:15	47.0	481.8	$0
Chesapeake 4	D4	U4 was derated 17 MW derate due to repair on 4B pulverizer PF Exhauster Inlet Damper. W.O. 67740589	27.68	3.61	2/3/2014 1:00	2/4/2014 4:41	27.0	747.4	$33
Chesapeake 4	NC	Turbine Valve test (No incremental cost)	1.05	-	2/8/2014 1:32	2/8/2014 2:35	-	-	$0
Chesapeake 4	U1	Unit 4 CRO manually tripped the unit due to wet coal conditions and DA Level control issues: W.O. 67747943	9.32	9.32	2/14/2014 18:00	2/15/2014 3:19	207.0	1,928.6	$0
Chesapeake 4	U1	Unit 4 tripped due to the wrong fuel oil gun being removed from service and a oil spill on 4D mill. W.O. 67752207	18.00	18.00	2/26/2014 11:38	2/27/2014 5:38	207.0	3,726.0	$40
Chesapeake 4	D1	Wet coal caused reduced load capability	50.43	22.66	2/28/2014 0:00	3/2/2014 2:26	93.0	4,690.3	$0
Chesapeake 4	D1	Unit 4 was derate 27 MW due to a 2nd Point Heater tube leak. W.O. 67752722	757.57	80.09	3/2/2014 2:26	4/2/2014 17:00	27.0	20,454.3	$6
Chesapeake 4	D1	U4 was derated an additional 40 MW due to high boiler silica by CBO facility.	14.43	2.79	3/3/2014 14:20	3/4/2014 4:46	40.0	577.3	$0
Chesapeake 4	U1	Unit 4 tripped on low drum level caused by the BFPT tripping on high vibration.	7.33	7.33	3/4/2014 4:46	3/4/2014 12:06	207.0	1,517.9	$0
Chesapeake 4	D1	U4 was derated an additional 60 MW due to high boiler silica caused by the temporary DMZ trailer failure.	11.67	3.38	3/5/2014 18:19	3/6/2014 5:59	60.0	700.0	$0
Chesapeake 4	D1	U4 earlier derate was reduced form 60 MW to 23 MW caused by high silica.	3.85	0.43	3/6/2014 5:59	3/6/2014 9:50	23.0	88.6	$0
Chesapeake 4	D1	Unit 4 was derated 17 MW due to high opacity and particulate matter.	26.77	2.20	3/26/2014 11:45	3/27/2014 14:31	17.0	455.0	$0
Chesapeake 4	MO	U4 MO was due to ESP opacity issues and a 2nd point heater tube leak. W.O.67723257 & 67752722	136.23	136.23	3/28/2014 0:46	4/2/2014 17:00	207.0	28,200.2	$14
Chesapeake 4	MO	U4 MO for ESP inspection and repair WO#67744964	328.90	328.90	4/19/2014 0:01	5/2/2014 16:55	207.0	68,082.3	$6
Chesapeake 4	SF	Unit 4 startup was delayed due to a leak in fuel oil piping flange. W.O. 66446668	7.17	7.17	5/7/2014 5:00	5/7/2014 12:10	207.0	1,483.6	$0
Chesapeake 4	NC	U4 Turbine valve test (No incremental cost)	1.78	-	5/17/2014 1:51	5/17/2014 3:38	-	-	$0
Chesapeake 4	D1	U4 derated 5 MW for not obtaining its maximum net load 207 MW for summer Real Power Capacity Testing due to condenser backpressure issues. W.O. 67821391	3,089.33	72.24	6/1/2014 0:01	10/7/2014 17:21	5.0	15,446.7	$7
Chesapeake 4	SF	U4 Start Failure was due to issues with the voltage regulator, field breaker and annunciator alarm panels not working properly. W.O. # 67811951	18.30	18.30	7/27/2014 5:00	7/27/2014 23:18	207.0	3,788.1	$2
Chesapeake 4	U1	U4 Force Outage was due to a tube leak in the lower water wall of B" Furnace	33.12	33.12	7/30/2014 22:23	8/1/2014 7:30	207.0	6,855.2	$0
Chesapeake 4	NC	U4 Turbine Valve test (No incremental cost)	0.28	-	8/23/2014 1:58	8/23/2014 2:15	-	-	$0
Chesapeake 4	NC	U4 Turbine Valve test (No incremental cost).	0.57	-	9/6/2014 2:00	9/6/2014 2:34	-	-	$0
Chesapeake 4	U1	U4 tripped automatically due to the SDBFPT tripping causing a boiler Low Drum Level Trip". W.O. #67829144"	5.80	5.80	9/6/2014 6:29	9/6/2014 12:17	207.0	1,200.6	$0
Chesapeake 4	D1	U4 was derated 42 MW due to wet coal issues.	241.63	43.19	9/9/2014 6:30	9/19/2014 8:08	37.0	8,940.4	$0
Chesapeake 4	MO	U4 Maintenance Outage was for required NERC relay maintenance on Breaker T202 and Reserve Station Service RSS-1 Transformer. WO 67594461	41.48	41.48	10/5/2014 23:52	10/7/2014 17:21	207.0	8,587.0	$0
Chesapeake CT1	MO	67755095 - BLACK START TESTING	2.53	2.53	3/25/2014 7:00	3/25/2014 9:32	14.9	37.7	$0
Chesapeake CT1	MO	67776374 - STARTING AIR COMPRESSOR MAINTENANCE	79.50	79.50	5/2/2014 7:00	5/5/2014 14:30	14.9	1,184.6	$5
Chesapeake CT1	U1	67803813 - Unit failed to accelerate.	148.00	148.00	7/3/2014 14:30	7/9/2014 18:30	14.9	2,205.2	$10
Chesapeake CT1	MO	67743423 - Transformer maintenance	56.60	56.60	9/15/2014 7:00	9/17/2014 15:36	14.9	843.3	$0
Chesapeake CT1	MO	67745698 - fuel oil piping modifications	69.50	69.50	11/10/2014 12:00	11/13/2014 9:30	14.9	1,035.6	$2
Chesapeake CT1	U1	67864508 - trip when switching to manual regulator for testing	0.18	0.18	12/12/2014 5:47	12/12/2014 5:58	14.9	2.7	$0
Chesapeake CT2	U1	67730825 - BLADE PATH COMBUSTER OUTLET HIGH/TRIP	13.23	13.23	1/7/2014 6:07	1/7/2014 19:21	12.0	158.8	$0
Chesapeake CT2	MO	67627577 - Relay Maintenance performed by Control Operations.	29.37	29.37	9/22/2014 9:25	9/23/2014 14:47	12.0	352.4	$0
Chesapeake CT2	MO	67844871 - generator breaker maintenance	49.12	49.12	10/20/2014 8:24	10/22/2014 9:31	12.0	589.4	$1
Chesapeake CT2	MO	67745698 - fuel oil piping modifications	69.50	69.50	11/10/2014 12:00	11/13/2014 9:30	12.0	834.0	$2
Chesapeake CT4	U1	67730826 - GENERATOR BREAKER FAILURE	1.98	1.98	1/7/2014 16:47	1/7/2014 18:46	12.0	23.8	$0
Chesapeake CT4	U1	67771072 - STARTING DIESEL FAILURE	1,058.00	1,058.00	4/17/2014 11:00	5/31/2014 13:00	12.0	12,696.0	$30
Chesapeake CT4	MO	67627577 - Relay Maintenance performed by Control Operations	29.37	29.37	9/22/2014 9:25	9/23/2014 14:47	12.0	352.4	$0

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Chesapeake CT4	MO	67844871 - generator breaker maintenance	49.12	49.12	10/20/2014 8:24	10/22/2014 9:31	12.0	589.4	$1
Chesapeake CT4	MO	67745698 - fuel oil piping modifications	69.50	69.50	11/10/2014 12:00	11/13/2014 9:30	12.0	834.0	$2
Chesapeake CT6	U1	67730825 - HIGH EXHAUST THERMOCOUPLE	13.93	13.93	1/7/2014 7:22	1/7/2014 21:18	12.0	167.2	$0
Chesapeake CT6	MO	67627577 - Relay Maintenance performed by Control Operations	29.37	29.37	9/22/2014 9:25	9/23/2014 14:47	12.0	352.4	$0
Chesapeake CT6	MO	67844871 - generator breaker maintenance	49.12	49.12	10/20/2014 8:24	10/22/2014 9:31	12.0	589.4	$1
Chesapeake CT6	MO	67745698 - fuel oil piping modifications	69.50	69.50	11/10/2014 12:00	11/13/2014 9:30	12.0	834.0	$2
Chesterfield 3	U1	Unit 3 Trip - ID Fan Issue	18.07	18.07	1/25/2014 23:03	1/26/2014 17:07	97.5	1,761.5	$5
Chesterfield 3	D1	Unit 3 Derate due to C Feeder trip	1.33	0.29	2/4/2014 13:24	2/4/2014 14:44	21.5	28.7	$0
Chesterfield 3	U1	Unit 3 Taken offline for tube leak repair	205.23	205.23	2/6/2014 5:50	2/14/2014 19:04	97.5	20,010.2	$198
Chesterfield 3	D1	Unit 3 Derate due to wet coal	5.52	1.10	2/25/2014 18:52	2/26/2014 0:23	19.5	107.6	$0
Chesterfield 3	D1	Unit 3 Derated due to wet coal	5.47	0.98	2/26/2014 2:10	2/26/2014 7:38	17.5	95.7	$0
Chesterfield 3	D1	Unit 3 derated due to high opacity	0.92	0.05	2/27/2014 4:55	2/27/2014 5:50	5.5	5.0	$0
Chesterfield 3	D1	Unit 3 derate due to charlie feeder issues.	16.27	3.59	3/4/2014 7:08	3/4/2014 23:24	21.5	349.7	$0
Chesterfield 3	D1	Unit 3 Derate due to issues with Delta mill	8.45	2.38	3/5/2014 10:11	3/5/2014 18:38	27.5	232.4	$0
Chesterfield 3	D1	Unit 3 derate due to opacity	0.40	0.04	3/6/2014 22:44	3/6/2014 23:08	9.5	3.8	$0
Chesterfield 3	D1	Unit 3 derated due to high opacity	4.32	0.42	3/7/2014 8:20	3/7/2014 12:39	9.5	41.0	$0
Chesterfield 3	D1	Unit 3 derated due to opacity	10.33	0.90	3/9/2014 21:12	3/10/2014 7:32	8.5	87.8	$0
Chesterfield 3	U1	Unit 3 offline for tube leak (WO#67756866)	51.50	51.50	3/11/2014 0:37	3/13/2014 4:07	97.5	5,021.3	$22
Chesterfield 3	D1	Unit 3 derate due to loss of Charlie feeder	4.35	2.74	3/14/2014 10:40	3/14/2014 15:01	61.5	267.5	$0
Chesterfield 3	D1	Unit 3 derate due to lose of Bravo Feeder	0.60	0.29	3/15/2014 11:20	3/15/2014 11:56	47.5	28.5	$0
Chesterfield 3	D1	Unit 3 derate due to loss of coal to Charlie feeder	0.13	0.04	3/16/2014 8:50	3/16/2014 8:58	31.5	4.2	$0
Chesterfield 3	D1	Unit 3 derated due to issues with Alpha mill	10.83	6.06	3/18/2014 19:05	3/19/2014 5:55	54.5	590.4	$0
Chesterfield 3	D1	Unit 3 derated due to loss of alpha and Charlie feeder	1.93	0.74	3/19/2014 9:48	3/19/2014 11:44	37.5	72.5	$0
Chesterfield 3	D1	Unit 3 derated due to opacity	8.02	2.67	3/19/2014 15:02	3/19/2014 23:03	32.5	260.6	$0
Chesterfield 3	D1	Unit 3 derated due to issue with Charlie and Delta mill issues	46.95	9.34	3/20/2014 9:16	3/22/2014 8:13	23.5	1,103.3	$0
Chesterfield 3	U1	Unit 3 offline due to tube leak (WO# 67761593)	129.27	129.27	3/22/2014 0:00	3/27/2014 9:16	97.5	12,603.5	$52
Chesterfield 3	D1	Unit 3 derate due to lose of Charlie feeder	0.53	0.18	5/7/2014 14:52	5/7/2014 15:24	33.5	17.9	$0
Chesterfield 3	D1	Unit 3 derate due to switch out BCW Pump	0.37	0.09	5/8/2014 17:24	5/8/2014 17:46	22.5	8.3	$0
Chesterfield 3	U1	Unit 3 trip due to lose of communication	9.50	9.50	5/12/2014 19:41	5/13/2014 5:11	97.5	926.3	$0
Chesterfield 3	D1	Unit 3 derate due to Alpha feeder belt alignment issues	3.60	1.27	5/14/2014 19:14	5/14/2014 22:50	34.5	124.2	$0
Chesterfield 3	MO	Unit 3 Tube Leak WO#: 67785393	139.62	139.62	5/27/2014 0:01	6/1/2014 19:38	97.5	13,612.7	$11
Chesterfield 3	SF	Unit 3 startup failure due to generator field ground issue	19.75	19.75	7/1/2014 5:37	7/2/2014 1:22	97.5	1,925.6	$0
Chesterfield 3	D1	Unit 3 derate due to A & C feeder belt slipping	6.30	2.94	7/2/2014 7:24	7/2/2014 13:42	45.5	286.7	$0
Chesterfield 3	D1	Unit 3A Feeder tripped due to Belt alignment issues	0.97	0.33	7/2/2014 23:54	7/3/2014 0:52	33.5	32.4	$0
Chesterfield 3	U1	Unit 3 MO due to generator issues. WO# 67805394	750.02	750.02	7/4/2014 0:28	8/4/2014 6:29	97.5	73,126.7	$722
Chesterfield 3	U1	Unit 3 tripped due to issues with FD B Fan	11.27	11.27	8/4/2014 7:51	8/4/2014 19:07	97.5	1,098.5	$0
Chesterfield 3	U1	Unit 3 trip due to issue with B FD fan	34.77	34.77	8/4/2014 19:54	8/6/2014 6:40	97.5	3,389.8	$0
Chesterfield 3	U1	Unit 3 tripped due to B FD fan issue WO# 67815941	16.38	16.38	8/6/2014 6:40	8/6/2014 23:03	97.5	1,597.3	$5
Chesterfield 3	U1	Unit 3 tripped due to backpressure issues.	3.80	3.80	8/7/2014 4:20	8/7/2014 8:08	97.5	370.5	$0
Chesterfield 3	D1	Unit 3 derate due to lose of A feeder	0.38	0.11	8/8/2014 2:08	8/8/2014 2:31	27.5	10.5	$0
Chesterfield 3	MO	Unit 3 not available due to maintenance work in 110KV yard	61.98	61.98	11/12/2014 0:01	11/14/2014 14:00	97.5	6,043.3	$0
Chesterfield 3	U1	Unit 3 offline due to fire in control room	26.62	26.62	11/15/2014 11:04	11/16/2014 13:41	97.5	2,595.2	$0
Chesterfield 3	D1	Unit 3 derate due to 3A feeder trip	2.43	1.51	11/16/2014 23:52	11/17/2014 2:18	60.5	147.2	$0
Chesterfield 3	MO	Unit 3 Maintenance Outage	172.32	172.32	11/22/2014 0:32	11/29/2014 4:51	97.5	16,800.9	$67
Chesterfield 4	D1	Unit 4 derate due to failure of B BFP	107.50	44.85	12/13/2013 23:09	1/5/2014 11:30	68.0	7,310.0	$0
Chesterfield 4	D1	Unit 4 Derate due to loss of D Feeder	0.78	0.28	2/6/2014 13:09	2/6/2014 13:56	59.0	46.2	$0
Chesterfield 4	D1	Unit 4 Derate due to loss of D Feeder	0.07	0.02	2/7/2014 17:34	2/7/2014 17:38	43.0	2.9	$0
Chesterfield 4	D1	Unit 4 Derated due to loss of C feeder	0.70	0.13	2/8/2014 20:42	2/8/2014 21:24	29.0	20.3	$0
Chesterfield 4	D1	Unit 4 Derate due to loss of C Feeder	0.13	0.03	2/8/2014 22:51	2/8/2014 22:59	42.0	5.6	$0
Chesterfield 4	D1	Unit 4 Derate due to loss of D feeder	0.08	0.01	2/9/2014 3:00	2/9/2014 3:05	27.0	2.2	$0
Chesterfield 4	D1	Unit 4 Derate due to loss of D feeder	0.10	0.03	2/9/2014 3:55	2/9/2014 4:01	44.0	4.4	$0
Chesterfield 4	D1	Unit 4 Derate due to loss of D feeder	0.07	0.01	2/11/2014 3:25	2/11/2014 3:29	22.0	1.5	$0
Chesterfield 4	D1	Unit 4 Derate due to loss of D feeder	0.17	0.05	2/11/2014 10:06	2/11/2014 10:16	44.0	7.3	$0
Chesterfield 4	U1	Unit 4 Offline due to tube leak on rear waterwalls screen tubes	25.70	25.70	2/27/2014 0:00	2/28/2014 1:42	163.0	4,189.1	$15
Chesterfield 4	D1	Unit 4 derate due to issue with Charlie Feeder	2.53	0.02	3/5/2014 15:03	3/5/2014 17:35	1.0	2.5	$0
Chesterfield 4	D1	Unit 4 derated due to C feeder issues	0.28	0.06	3/5/2014 15:03	3/5/2014 15:20	34.0	9.6	$0
Chesterfield 4	D1	Unit 4 derate due to rock in feeder	0.77	0.19	3/9/2014 20:48	3/9/2014 21:34	40.0	30.7	$0
Chesterfield 4	D1	Unit 4 derate due to loss of coal to Charlie mill	0.38	0.06	3/13/2014 14:14	3/13/2014 14:37	25.0	9.6	$0
Chesterfield 4	D1	Unit 4 derate due to issue with Delta feeder	0.13	0.03	3/14/2014 1:22	3/14/2014 1:30	37.0	[illegible]	$0

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Chesterfield 4	D1	Unit 4 derate due to loss of Delta feeder	0.10	0.05	3/14/2014 2:50	3/14/2014 2:56	77.0	7.7	$0
Chesterfield 4	D1	Unit 4 derate due to loss of Charlie feeder	0.33	0.09	3/14/2014 7:02	3/14/2014 7:22	43.0	14.3	$0
Chesterfield 4	D1	Unit 4 derate due to loss of Bravo feeder	0.17	0.07	3/16/2014 14:17	3/16/2014 14:27	64.0	10.7	$0
Chesterfield 4	D1	Unit 4 derate due to rock in Bravo feeder	0.08	0.02	3/26/2014 0:08	3/26/2014 0:13	46.0	3.8	$0
Chesterfield 4	D1	Unit 4 derate due to loss of Delta feeder	0.10	0.03	3/30/2014 7:07	3/30/2014 7:13	55.0	5.5	$0
Chesterfield 4	D1	Unit 4 derate due to wet coal	1.67	0.08	4/1/2014 6:50	4/1/2014 8:30	7.2	12.0	$0
Chesterfield 4	D1	Unit 4 derate due to feeder issues.	24.90	6.80	4/5/2014 19:51	4/6/2014 20:45	43.2	1,075.7	$0
Chesterfield 4	D1	Unit 4 derate due to alpha mill out of service	1.57	0.55	4/7/2014 14:33	4/7/2014 16:07	55.2	86.5	$0
Chesterfield 4	D1	Unit 4 derate due to coal fire	3.48	1.35	4/21/2014 12:26	4/21/2014 15:55	61.2	213.2	$0
Chesterfield 4	D1	Unit 4 derate due to coal leak on charlie mill	1.55	0.49	4/27/2014 14:16	4/27/2014 15:49	50.2	77.8	$0
Chesterfield 4	D1	Unit 4 derate due to fire.	0.18	0.03	4/29/2014 11:02	4/29/2014 11:13	23.2	4.2	$0
Chesterfield 4	D1	Unit 4 derate due to fire in tempary air duct	0.62	0.05	4/30/2014 10:25	4/30/2014 11:02	12.2	7.5	$0
Chesterfield 4	D1	Unit 4 derate due to fire in pyrite chute - burning rubber	1.33	0.57	4/30/2014 11:35	4/30/2014 12:55	67.2	89.6	$0
Chesterfield 4	U1	Unit 4 trip due to lost of communication	20.00	20.00	5/7/2014 12:16	5/8/2014 8:16	158.2	3,164.0	$0
Chesterfield 4	U1	Unit 4 trip due to high drum level	14.20	14.20	5/8/2014 22:38	5/9/2014 12:50	158.2	2,246.4	$0
Chesterfield 4	D1	Unit 4 derate due to lose of Charlie Feeder	0.18	0.04	5/14/2014 16:42	5/14/2014 16:53	33.2	6.1	$0
Chesterfield 4	U1	Unit 4 tube leak WO# 67789493	74.10	74.10	6/3/2014 3:31	6/6/2014 5:37	158.2	11,722.6	$65
Chesterfield 4	D1	Unit 4 derate 4D mill - coal pipe fire and feeder coal leak	6.93	1.81	6/10/2014 18:05	6/11/2014 1:01	41.2	285.6	$0
Chesterfield 4	D1	Unit 4 derate due to wet coal	9.90	2.39	6/13/2014 8:23	6/13/2014 18:17	38.2	378.2	$0
Chesterfield 4	D1	Unit 4 derate taking 4B river circulating pump put of service	1.70	0.89	6/19/2014 13:46	6/19/2014 15:28	83.2	141.4	$0
Chesterfield 4	D1	Unit 4 derate due to problem with B river circulating pump. WO#67539778	81.03	22.13	6/19/2014 15:28	6/23/2014 0:30	43.2	3,500.6	$40
Chesterfield 4	D1	Unit 4 Derate due to coal leak on A mill.	6.07	1.81	7/19/2014 22:55	7/20/2014 4:59	47.2	286.4	$0
Chesterfield 4	D1	Unit 4 Derate due to rock in A feeder	0.18	0.05	7/24/2014 20:42	7/24/2014 20:53	40.2	7.4	$0
Chesterfield 4	D1	Unit 4 Derate due to broken wiper arm on C feeder	0.52	0.08	7/25/2014 9:26	7/25/2014 9:57	25.2	13.0	$0
Chesterfield 4	U1	Unit 4 tube leak outage - WO#67811921	84.57	84.57	7/25/2014 18:34	7/29/2014 7:08	158.2	13,378.5	$44
Chesterfield 4	D1	Unit 4 derate due to issue with C mill	25.65	5.38	8/14/2014 3:03	8/15/2014 4:42	33.2	851.6	$0
Chesterfield 4	D1	Unit derate due to wet coal	26.42	1.20	8/24/2014 12:52	8/25/2014 15:17	7.2	190.2	$0
Chesterfield 4	D1	Unit 4 derate due to feeder issues	0.35	0.07	9/5/2014 8:30	9/5/2014 8:51	31.2	10.9	$0
Chesterfield 4	MO	Unit 4 tube leak outage (WO#67816806)	75.63	75.63	9/7/2014 1:00	9/10/2014 4:38	158.2	11,965.1	$37
Chesterfield 4	D1	Unit 4 derate due to B coal feeder issues	0.23	0.04	9/29/2014 13:18	9/29/2014 13:32	28.2	6.6	$0
Chesterfield 4	D1	Unit 4 Derate due to rock in B feeder	0.10	0.02	10/13/2014 13:44	10/13/2014 13:50	35.2	3.5	$0
Chesterfield 4	U1	Unit 4 offline due to failed coolant hose.	35.33	35.33	11/2/2014 2:10	11/3/2014 13:30	158.2	5,589.7	$29
Chesterfield 4	PO	Unit 4 Maintenance Outage	187.78	187.78	11/8/2014 0:01	11/15/2014 19:48	158.2	29,707.3	$766
Chesterfield 4	D1	Unit 4 derated due to tube leak	31.50	0.64	11/23/2014 17:00	11/25/2014 0:30	3.2	100.8	$0
Chesterfield 4	MO	Unit 4 Maintenance Outage	74.42	74.42	11/25/2014 0:30	11/28/2014 2:55	158.2	11,772.8	$40
Chesterfield 4	D1	Unit 4 derate due to issues with screenwells - leaves	5.28	2.31	11/28/2014 11:07	11/28/2014 16:24	69.2	365.6	$0
Chesterfield 4	D1	Unit 4 derate due to loss of D feeder	0.18	0.06	12/1/2014 16:41	12/1/2014 16:52	53.2	9.7	$0
Chesterfield 4	D4	Unit 4 derated due to safety valve test	2.68	0.63	12/4/2014 0:01	12/4/2014 2:42	37.2	99.8	$0
Chesterfield 4	D1	Unit 4 derate due to loss of A feeder	0.12	0.03	12/7/2014 22:21	12/7/2014 22:28	45.2	5.3	$0
Chesterfield 4	D4	Unit 4 derate due to Turbine Valve Checks. No incurred Charge	0.95	0.41	12/13/2014 0:29	12/13/2014 1:26	68.2	64.8	$0
Chesterfield 4	D1	Unit 4 derate due to feeder issue	0.08	0.03	12/14/2014 5:13	12/14/2014 5:18	49.2	4.1	$0
Chesterfield 4	D4	Unit 4 derate due to condenser cleaning	3.50	1.51	12/20/2014 0:02	12/20/2014 3:32	68.2	238.7	$0
Chesterfield 4	D4	Unit 4 derate due to condenser cleaning	1.22	0.53	12/22/2014 0:01	12/22/2014 1:14	68.2	83.0	$0
Chesterfield 4	D1	Unit 4 derate due to fuel line fire	6.18	1.77	12/23/2014 8:30	12/23/2014 14:41	45.2	279.5	$0
Chesterfield 4	D1	Unit 4 derate due to loss of coal to B feeder	0.33	0.15	12/25/2014 7:20	12/25/2014 7:40	71.2	23.7	$0
Chesterfield 4	D1	Unit 4 derate due to loss of coal in A and B feeders	0.40	0.21	12/25/2014 8:53	12/25/2014 9:17	82.2	32.9	$0
Chesterfield 4	D1	Unit 4 derated due to temperature control issues	13.62	5.01	12/26/2014 21:25	12/27/2014 11:02	58.2	792.5	$0
Chesterfield 4	D1	Unit 4 derated due to loss of coal to mill	0.08	0.01	12/30/2014 9:21	12/30/2014 9:26	17.2	1.4	$0
Chesterfield 5	MO	Boiler Tube Leaks (W.O.: 67727181) See Extended Description	23.98	23.98	12/31/2013 1:26	1/1/2014 23:59	336.0	8,058.3	$37
Chesterfield 5	U1	Boiler Tube Leak Repairs See Extended Description (W.O.: 67728961)	69.93	69.93	1/5/2014 16:40	1/8/2014 14:36	336.0	23,497.5	$47
Chesterfield 5	MO	Unit 5 waterwall repairs: (See Extended Description) W.O: 67732574	62.38	62.38	1/17/2014 0:41	1/19/2014 15:04	336.0	20,960.7	$70
Chesterfield 5	D4	Derate for biweekly turbine valve checks. No incurred Charge	1.18	0.21	2/1/2014 2:23	2/1/2014 3:34	59.0	69.8	$0
Chesterfield 5	D1	Lost coal A" feeder. No incurred Charge"	0.38	0.08	2/13/2014 11:19	2/13/2014 11:42	66.0	25.3	$0
Chesterfield 5	D4	Derate for turbine valve checks. No incurred Charge	4.40	1.72	2/15/2014 3:05	2/15/2014 7:29	131.0	576.4	$0
Chesterfield 5	D1	Lost coal to B" feeder due to rock. No incurred Charge"	0.08	0.02	2/24/2014 11:24	2/24/2014 11:29	66.0	5.5	$0
Chesterfield 5	D1	D" pulverizer taken out of service to repair coal leak. No incurred Charge"	1.45	0.29	2/26/2014 13:58	2/26/2014 15:25	66.0	95.7	$0
Chesterfield 5	D1	Replace bad roller in A" pulverizer. Order 67752593"	17.90	3.52	2/27/2014 7:27	2/28/2014 1:21	66.0	1,181.4	$0
Chesterfield 5	D4	Derate for biweekly turbine valve checks: No incurred Charge	0.60	0.23	3/1/2014 2:05	3/1/2014 2:41	126.0	75.6	$0
Chesterfield 5	D4	Condenser Cleaning. No incurred Charge	42.53	15.95	3/1/2014 3:19	3/2/2014 21:51	126.0	5,359.2	$0

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U# = Unplanned Outage — NC = Non curtailing Event
MO = Maintenance Outage — ME = Extension of Maintenance Outage
PO = Planned Outage — PE = Extension of Planned Outage
SF = Start Failure — D# = Derates
PD = Planned Derating — DM = Maintenance Derate Extension

2014 Power Generation Outage Report
(Fossil & Hydro)

Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2014 Dates Start	2014 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Chesterfield 5	D4	Derate for biweekly turbine valve checks. No incurred charge.	0.67	0.25	3/15/2014 2:00	3/15/2014 2:40	126.0	84.0	$0
Chesterfield 5	D4	Derate for Boiler Safety Valves setting.	3.45	0.42	4/3/2014 13:20	4/3/2014 16:47	41.0	141.5	$0
Chesterfield 5	D4	Condenser Cleaning. No incurred charge.	3.03	1.32	4/5/2014 0:01	4/5/2014 3:03	146.0	442.8	$0
Chesterfield 5	D1	Wet Coal; Pulverizers with high vibration, high temperature and limited air flow. Not incurred charge.	37.88	4.06	4/5/2014 7:31	4/6/2014 21:24	36.0	1,363.8	$0
Chesterfield 5	D1	5D Feeder; Broken Wiper Arm; W.O: 67753354	0.62	0.12	4/8/2014 22:08	4/8/2014 22:45	66.0	40.7	$0
Chesterfield 5	D1	5D Feeder Coal Leak; W.O.:67775824	1.07	0.27	4/9/2014 22:46	4/9/2014 23:50	86.0	91.8	$0
Chesterfield 5	PO	Planned Outage: Boiler Maintenance	945.33	945.33	4/12/2014 0:20	5/21/2014 9:40	336.0	317,631.9	$3,731
Chesterfield 5	D1	Load dropped due to high vibration indication on SDBFP.	2.50	0.18	5/24/2014 17:40	5/24/2014 20:10	24.0	60.0	$0
Chesterfield 5	D1	Derate due to B" circ water pump out of service."	6.88	0.41	5/28/2014 7:33	5/28/2014 14:26	20.0	137.7	$0
Chesterfield 5	D4	Safety Valve Testing	3.37	0.11	6/20/2014 6:00	6/20/2014 9:22	11.0	37.0	$0
Chesterfield 5	D4	Derate for Boiler Safety Valves Test	1.58	0.36	7/21/2014 8:15	7/21/2014 9:50	76.0	120.3	$0
Chesterfield 5	D1	Unit Derate due to Wet Coal	22.05	1.71	7/27/2014 11:52	7/28/2014 9:55	26.0	573.3	$0
Chesterfield 5	U1	Unit 5 tube leak. See extended description (W.O.: 67799011)	60.83	60.83	8/10/2014 0:40	8/12/2014 13:30	336.0	20,439.9	$54
Chesterfield 5	MO	Boiler and Balance of Plant Maintenance. See extended Description. (W.O.: 67818890,67799055,67681153,67752184,67806826,67715998)	25.53	25.53	8/12/2014 13:30	8/13/2014 15:02	336.0	8,579.1	$45
Chesterfield 5	D1	Derate due to B BCP out of service. (W.O.:67819383	33.55	6.99	8/18/2014 1:30	8/19/2014 11:03	70.0	2,348.5	$1
Chesterfield 5	D1	Lost E" feeder. No incurred charge."	0.42	0.03	8/25/2014 9:40	8/25/2014 10:05	26.0	10.8	$0
Chesterfield 5	D1	Lost E" feeder. No incurred charge."	0.40	0.03	8/30/2014 10:58	8/30/2014 11:22	26.0	10.4	$0
Chesterfield 5	D1	Derate due to lost of service on B set of fans, I.D. and F.D. (W.O.: 67826427)	27.25	21.98	9/1/2014 14:07	9/2/2014 17:22	271.0	7,384.8	$3
Chesterfield 5	PO	Planned Outage: Boiler and Balance of Plant work	646.07	646.07	9/12/2014 23:56	10/9/2014 22:00	336.0	217,078.5	$2,044
Chesterfield 5	U1	5B FD Fan High Vibration (W.O. : 67804530)	17.12	17.12	10/10/2014 8:00	10/11/2014 1:07	336.0	5,751.3	$0
Chesterfield 5	D1	Derate due to lost of service on A set of fans I.D. and F.D. (W.O.: 67842321)	8.58	5.39	10/11/2014 1:30	10/11/2014 10:05	211.0	1,811.0	$0
Chesterfield 5	U1	Forced Outage due to Boiler Waterwall Tube Leak (W.O.: 67847765)	94.68	94.68	10/26/2014 8:56	10/30/2014 7:37	336.0	31,813.5	$91
Chesterfield 5	D4	Derate for biweekly turbine valve checks: No incurred Charge	0.92	0.15	11/15/2014 2:02	11/15/2014 2:57	56.0	51.4	$0
Chesterfield 5	MO	M.O. U5 Boiler Tube Leak (W.O.: 67852640)	42.60	42.60	11/21/2014 23:49	11/23/2014 18:25	336.0	14,313.6	$50
Chesterfield 5	D4	Derate to repair leveling gate. (W.O.:)	3.83	0.30	12/12/2014 14:16	12/12/2014 18:06	26.0	99.7	$0
Chesterfield 5	D4	Derate for Bi-Weekly Turbine Valve Checks. No incurred Charge	0.90	0.15	12/13/2014 2:25	12/13/2014 3:19	56.0	50.4	$0
Chesterfield 5	D4	Condenser Cleaning. No incurred Charge	3.10	1.35	12/14/2014 0:30	12/14/2014 3:36	146.0	452.6	$0
Chesterfield 5	D4	Derate for Bi-Weekly Turbine Valve Checks. No incurred Charge	0.90	0.15	12/23/2014 10:57	12/23/2014 11:51	56.0	50.4	$0
Chesterfield 6	D1	Lost coal to F feeder. No incurred Charge.	0.18	0.03	1/17/2014 10:25	1/17/2014 10:36	100.0	18.3	$0
Chesterfield 6	D1	Lost coal on D" feeder. No incurred Charge"	0.33	0.05	2/4/2014 9:45	2/4/2014 10:05	100.0	33.3	$0
Chesterfield 6	D4	A" feeder removed from service to replace feeder belt. Order 67742362"	3.37	0.50	2/5/2014 10:58	2/5/2014 14:20	100.0	336.7	$3
Chesterfield 6	D4	Derate for condenser cleaning. No incurred Charge	4.95	2.00	2/6/2014 0:02	2/6/2014 4:59	270.0	1,336.5	$0
Chesterfield 6	D1	Lost F" feeder. No incurred Charge"	0.78	0.12	2/6/2014 14:30	2/6/2014 15:17	100.0	78.3	$0
Chesterfield 6	D1	Removed A" feeder from service due to coal smoldering inside feeder."	1.58	0.24	2/10/2014 1:54	2/10/2014 3:29	100.0	158.3	$0
Chesterfield 6	D1	Lost coal on F" feeder."	0.42	0.06	2/11/2014 16:30	2/11/2014 16:55	100.0	41.7	$0
Chesterfield 6	D1	Lost C" coal feeder."	1.18	0.18	2/12/2014 23:00	2/13/2014 0:11	100.0	118.3	$0
Chesterfield 6	D1	Lost coal on 6F feeder.	0.73	0.11	2/27/2014 22:45	2/27/2014 23:29	100.0	73.3	$0
Chesterfield 6	D1	Lost coal on 6C feeder.	0.50	0.08	2/28/2014 22:09	2/28/2014 22:39	100.0	50.0	$0
Chesterfield 6	D4	Derate for biweekly turbine valve checks. No incurred charge.	0.40	0.05	3/1/2014 0:28	3/1/2014 0:52	80.0	32.0	$0
Chesterfield 6	D1	Lost E" feeder during normal operation. No incurred charge."	0.40	0.06	3/4/2014 21:20	3/4/2014 21:44	100.0	40.0	$0
Chesterfield 6	D1	Lost fuel flow to F" feeder. No incurred charge."	0.22	0.03	3/5/2014 4:10	3/5/2014 4:23	100.0	21.7	$0
Chesterfield 6	D1	Lost operation of 6E feeder. No incurred charge.	0.23	0.04	3/6/2014 4:13	3/6/2014 4:27	100.0	23.3	$0
Chesterfield 6	D1	Lost coal on 6E feeder. No incurred charge.	0.40	0.06	3/6/2014 4:51	3/6/2014 5:15	100.0	40.0	$0
Chesterfield 6	D1	Derate to repair coal leak in E" coal piping. No incurred charge."	0.92	0.14	3/6/2014 8:51	3/6/2014 9:46	100.0	91.7	$0
Chesterfield 6	D1	Lost operation of 6B feeder. No incurred charge.	0.25	0.04	3/6/2014 11:12	3/6/2014 11:27	100.0	25.0	$0
Chesterfield 6	D1	Lost coal to 6B feeder. No incurred charge.	0.20	0.03	3/6/2014 15:30	3/6/2014 15:42	100.0	20.0	$0
Chesterfield 6	D1	Lost operation of 6B feeder. No incurred charge.	0.17	0.03	3/6/2014 16:30	3/6/2014 16:40	100.0	16.7	$0
Chesterfield 6	D1	6E feeder belt torn. Feeder taken offline to replace. Order 67755674	3.88	0.58	3/6/2014 17:25	3/6/2014 21:18	100.0	388.3	$4
Chesterfield 6	D1	Lost coal to 6B feeder. No incurred charge.	0.25	0.04	3/7/2014 0:20	3/7/2014 0:35	100.0	25.0	$0
Chesterfield 6	D1	Lost operation of 6B feeder. No incurred charge.	0.18	0.03	3/8/2014 8:53	3/8/2014 9:04	100.0	18.3	$0
Chesterfield 6	D1	Lost operation of 6E feeder. No incurred charge.	0.17	0.03	3/9/2014 7:00	3/9/2014 7:10	100.0	16.7	$0
Chesterfield 6	D1	Lost B" feeder due to rock. No incurred charge."	0.43	0.07	3/10/2014 14:15	3/10/2014 14:41	100.0	43.3	$0
Chesterfield 6	D1	Lost coal on 6E feeder. No incurred charge.	0.13	0.02	3/14/2014 7:38	3/14/2014 7:46	100.0	13.3	$0
Chesterfield 6	D1	Lost coal on 6B feeder. No incurred charge.	0.17	0.03	3/14/2014 8:17	3/14/2014 8:27	100.0	16.7	$0
Chesterfield 6	D1	Lost coal on 6E feeder. No incurred charge.	0.17	0.03	3/14/2014 12:22	3/14/2014 12:32	100.0	16.7	$0
Chesterfield 6	PO	Planned outage to metallize the boiler. Order 67680730	1,723.58	1,723.58	3/14/2014 23:40	5/25/2014 19:15	670.0	1,154,800.6	$9,334
Chesterfield 6	U1	Unit in forced outage due to failed exciter field breaker. Bad closing coil. Order #	7.90	7.90	5/25/2014 19:15	5/26/2014 3:09	670.0	5,293.0	$0
Chesterfield 6	MO	MO to repair PT cabinet connection issues. Order 67787675	13.37	13.37	5/30/2014 0:58	5/30/2014 14:20	670.0	8,956.9	$0

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2014 Power Generation Outage Report
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Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2014 Dates Start	2014 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Chesterfield 6	D1	Lost 6F feeder. No incurred charge.	0.13	0.02	6/10/2014 7:09	6/10/2014 7:17	100.0	13.3	$0
Chesterfield 6	D1	Lost coal F feeder. No incurred charge.	0.15	0.02	6/12/2014 14:50	6/12/2014 14:59	100.0	15.0	$0
Chesterfield 6	D4	Derate for turbine valve checks. No incurred charge.	1.37	0.16	6/14/2014 0:05	6/14/2014 1:27	80.0	109.4	$0
Chesterfield 6	D1	Derate due to torn feeder belt, 6C feeder. Order 67794883	7.75	1.16	6/18/2014 21:23	6/19/2014 5:08	100.0	775.0	$7
Chesterfield 6	D4	Derate to replace pulverizer pyrite brushes. Order 67796395	7.83	1.17	6/20/2014 19:25	6/21/2014 3:15	100.0	783.3	$1
Chesterfield 6	D1	6B feeder trip. No incurred charge.	0.47	0.07	6/22/2014 8:38	6/22/2014 9:06	100.0	46.7	$0
Chesterfield 6	D4	Derate for condenser backwash. No incurred charge.	2.72	1.10	6/22/2014 22:41	6/23/2014 1:24	270.0	733.6	$0
Chesterfield 6	D1	6C feeder trip. No incurred charge.	0.48	0.07	6/23/2014 5:57	6/23/2014 6:26	100.0	48.3	$0
Chesterfield 6	D1	Derate due to 6C feeder trip. No incurred charge.	0.12	0.02	6/23/2014 9:26	6/23/2014 9:33	100.0	11.7	$0
Chesterfield 6	D1	Derate due to 6F feeder trip. No incurred charge.	0.15	0.02	6/26/2014 12:32	6/26/2014 12:41	100.0	15.0	$0
Chesterfield 6	D4	Derate for turbine valve checks. No incurred charge.	1.20	0.14	6/27/2014 0:03	6/27/2014 1:15	80.0	96.0	$0
Chesterfield 6	D1	Derate due to loss of 6F feeder. No incurred charge.	0.33	0.05	6/27/2014 23:00	6/27/2014 23:20	100.0	33.3	$0
Chesterfield 6	D1	Lost coal on 6F feeder. No incurred charge.	0.10	0.02	6/28/2014 12:55	6/28/2014 13:01	100.0	10.0	$0
Chesterfield 6	D4	Unit held at 432 nMWs for RATA testing. No incurred charge.	3.55	1.26	7/1/2014 3:33	7/1/2014 7:06	238.0	844.9	$0
Chesterfield 6	D1	Lost coal to 6F feeder. No incurred charge.	0.37	0.06	7/2/2014 16:48	7/2/2014 17:10	100.0	36.7	$0
Chesterfield 6	D4	Derate for biweekly turbine valve checks. No incurred charge.	1.10	0.13	7/12/2014 0:02	7/12/2014 1:08	80.0	88.0	$0
Chesterfield 6	D1	Lost 6C feeder due to damper problems.	0.85	0.11	7/17/2014 17:20	7/17/2014 18:11	84.0	71.4	$0
Chesterfield 6	D1	6D feeder belt broken, replaced. Order 67811427	8.07	1.20	7/24/2014 6:45	7/24/2014 14:49	100.0	806.7	$8
Chesterfield 6	D4	Derate for biweekly turbine valve checks. No incurred charge.	1.33	0.16	7/26/2014 0:08	7/26/2014 1:28	80.0	106.6	$0
Chesterfield 6	D1	Lost coal to 6F feeder. No incurred charge.	0.12	0.02	7/30/2014 5:31	7/30/2014 5:38	100.0	11.7	$0
Chesterfield 6	D1	Lost coal to 6F feeder. No incurred charge.	0.13	0.02	7/30/2014 8:40	7/30/2014 8:48	100.0	13.3	$0
Chesterfield 6	D1	Lost coal on 6F feeder. No incurred charge.	0.22	0.03	7/31/2014 10:40	7/31/2014 10:53	100.0	21.7	$0
Chesterfield 6	D1	Lost coal on 6F feeder. No incurred charge.	0.17	0.03	7/31/2014 21:08	7/31/2014 21:18	100.0	16.7	$0
Chesterfield 6	D1	6B Feeder Tripped	1.00	0.17	8/1/2014 16:10	8/1/2014 17:10	112.0	112.0	$0
Chesterfield 6	D1	6F Coal Mill lost fuel	1.00	0.07	8/3/2014 16:35	8/3/2014 17:35	45.0	45.0	$0
Chesterfield 6	D1	6F Feeder lost fuel	1.00	0.03	8/5/2014 19:30	8/5/2014 20:30	20.0	20.0	$0
Chesterfield 6	D1	6F Feeder lost fuel flow	0.08	-	8/6/2014 17:43	8/6/2014 17:48	35.0	2.9	$0
Chesterfield 6	D1	6F Feeder lost fuel flow	0.60	0.03	8/6/2014 18:56	8/6/2014 19:32	35.0	21.0	$0
Chesterfield 6	D1	6F Feeder lost fuel flow	0.50	0.03	8/6/2014 19:42	8/6/2014 20:12	35.0	17.5	$0
Chesterfield 6	D1	6E Belt Replacement	4.00	0.54	8/8/2014 6:32	8/8/2014 10:32	90.0	360.0	$0
Chesterfield 6	D1	6F Feeder Tripped	0.70	0.05	8/17/2014 21:52	8/17/2014 22:34	45.0	31.5	$0
Chesterfield 6	U1	Unit 6 Tripped on Loss EHC Pressure	6.93	6.93	8/29/2014 16:43	8/29/2014 23:39	670.0	4,645.1	$0
Chesterfield 6	D1	Reducted load when Heat Rejection came into alarm	0.53	-	9/1/2014 13:01	9/1/2014 13:33	5.0	2.7	$0
Chesterfield 6	D1	Reducted load when Heat Rejection came into alarm	0.43	0.01	9/2/2014 8:07	9/2/2014 8:33	10.0	4.3	$0
Chesterfield 6	D1	Reducted load when Heat Rejection came into alarm	1.83	0.01	9/2/2014 9:21	9/2/2014 11:11	5.0	9.2	$0
Chesterfield 6	D1	Reducted load when Heat Rejection came into alarm	2.82	0.04	9/3/2014 13:10	9/3/2014 15:59	10.0	28.2	$0
Chesterfield 6	D1	Reducted load when Heat Rejection came into alarm	89.18	0.28	9/4/2014 14:53	9/8/2014 8:04	5.0	445.9	$0
Chesterfield 6	D1	67828210 - Reduced pressure due to leak in Chemical feed injection line	8.50	2.41	9/5/2014 6:51	9/5/2014 15:21	190.0	1,615.0	$0
Chesterfield 6	U1	67828210 - CH6 Removed from service to repair chemical feed line leak	51.40	51.40	9/5/2014 15:21	9/7/2014 18:45	670.0	34,438.0	$7
Chesterfield 6	D1	Unit 6 derate due to lose of B feeder	0.08	0.01	9/18/2014 19:24	9/18/2014 19:29	108.0	9.0	$0
Chesterfield 6	D1	Unit 6 derate due to issues with B feeder	7.03	1.16	9/23/2014 10:00	9/23/2014 17:02	110.0	773.6	$0
Chesterfield 6	D1	Unit 6 derate due to issues with C ID fan	46.02	1.37	9/27/2014 2:57	9/29/2014 0:58	20.0	920.3	$0
Chesterfield 6	MO	Unit MO due to ID fan issues. WO#67786727, 67786033, 67836905	146.35	146.35	9/29/2014 0:58	10/5/2014 3:19	670.0	98,054.5	$268
Chesterfield 6	D1	Lost coal on 6F feeder	0.35	0.04	10/10/2014 12:55	10/10/2014 13:16	75.0	26.3	$0
Chesterfield 6	D1	Lost coal on 6B mill	0.53	0.09	10/11/2014 10:59	10/11/2014 11:31	108.0	57.6	$0
Chesterfield 6	D4	Set safety valves	0.82	0.37	10/13/2014 0:07	10/13/2014 0:56	300.0	245.1	$0
Chesterfield 6	D1	Lost coal on 6E feeder	0.62	0.10	10/16/2014 20:05	10/16/2014 20:42	110.0	67.9	$0
Chesterfield 6	D4	Test turbine valves	1.08	0.51	10/18/2014 0:06	10/18/2014 1:11	314.0	340.1	$0
Chesterfield 6	MO	Unit removed from service to perform various ashpit repairs	228.22	228.22	10/25/2014 0:47	11/3/2014 12:00	670.0	152,905.4	$1,135
Chesterfield 6	U1	Unit 6 entered a FO at the end of a MO when initial end was not met.	52.53	52.53	11/3/2014 12:00	11/5/2014 16:32	670.0	35,197.1	$0
Chesterfield 6	D1	6C Feeder Experienced a runback	0.33	0.04	11/11/2014 11:45	11/11/2014 12:05	73.0	24.3	$0
Chesterfield 6	PD	CH6 reduced load to clean condenser	2.82	1.14	11/16/2014 2:00	11/16/2014 4:49	270.0	760.6	$0
Chesterfield 6	D1	CH6 was derated due to coal quality	13.62	0.81	11/17/2014 19:00	11/18/2014 8:37	40.0	544.7	$0
Chesterfield 6	D1	Lost 6F feeder - foreign object in feeder	0.60	0.06	11/18/2014 5:37	11/18/2014 6:13	70.0	42.0	$0
Chesterfield 6	D1	6E feeder belt tore	4.93	0.66	11/20/2014 11:04	11/20/2014 16:00	90.0	444.0	$0
Chesterfield 6	D1	6F feeder lost fuel	0.45	0.06	11/20/2014 16:43	11/20/2014 17:10	95.0	42.8	$0
Chesterfield 6	D1	6F feeder lost fuel flow	0.53	0.06	11/21/2014 8:00	11/21/2014 8:32	70.0	37.3	$0
Chesterfield 6	PD	Planned Derate for valve testing	2.00	0.30	11/22/2014 0:09	11/22/2014 2:09	99.0	198.0	$0
Chesterfield 6	D1	6F feeder was unavailable due to failed controller	5.93	0.71	11/27/2014 5:46	11/27/2014 11:42	80.0	474.6	$0

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2014 Power Generation Outage Report
(Fossil & Hydro)

Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2014 Dates Start	2014 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Chesterfield 6	MO	U6 removed from service to repair tube leak in coutant bottom.	71.63	71.63	11/28/2014 23:58	12/1/2014 23:36	670.0	47,994.1	$47
Chesterfield 6	D1	6F feeder lost fuel flow	0.25	0.03	12/3/2014 10:10	12/3/2014 10:25	70.0	17.5	$0
Chesterfield 6	D1	6F feeder lost fuel flow	0.13	0.01	12/3/2014 11:05	12/3/2014 11:13	70.0	9.3	$0
Chesterfield 6	D1	6F feeder lost fuel flow	0.08	0.01	12/3/2014 12:21	12/3/2014 12:26	70.0	5.8	$0
Chesterfield 6	D1	6F feeder lost fuel flow	0.75	0.16	12/3/2014 17:18	12/3/2014 18:03	140.0	105.0	$0
Chesterfield 6	D1	6F feeder lost fuel flow	3.85	0.58	12/3/2014 18:59	12/3/2014 22:50	100.0	385.0	$0
Chesterfield 6	D1	6B River Circulator removed from service to safe diver access.	2.40	0.61	12/4/2014 11:00	12/4/2014 13:24	170.0	408.0	$0
Chesterfield 6	D1	6F Feeder lost fuel flow	0.52	0.05	12/4/2014 15:24	12/4/2014 15:55	70.0	36.2	$0
Chesterfield 6	D1	6A Feeder lost fuel flow	0.47	0.07	12/4/2014 18:10	12/4/2014 18:38	100.0	46.7	$0
Chesterfield 6	D1	6F feeder lost fuel flow	0.98	0.15	12/11/2014 17:35	12/11/2014 18:34	100.0	98.3	$0
Chesterfield 6	D1	6F Feeder lost fuel flow	0.87	0.13	12/12/2014 19:30	12/12/2014 20:22	100.0	86.7	$0
Chesterfield 6	D1	6F Feeder lost fuel flow	0.45	0.07	12/12/2014 21:10	12/12/2014 21:37	100.0	45.0	$0
Chesterfield 6	D1	6F Feeder lost fuel flow	0.38	0.06	12/12/2014 23:03	12/12/2014 23:26	100.0	38.3	$0
Chesterfield 6	D1	6F Feeder lost fuel flow	0.48	0.09	12/14/2014 19:12	12/14/2014 19:41	120.0	58.0	$0
Chesterfield 6	D1	6F Feeder lost fuel flow	0.53	0.08	12/14/2014 20:59	12/14/2014 21:31	95.0	50.6	$0
Chesterfield 6	PD	Load was reduced to allow operations to clean the condenser.	4.45	2.06	12/15/2014 23:57	12/16/2014 4:24	310.0	1,379.5	$0
Chesterfield 6	D1	Lost 6C Coal Feeder	0.62	0.09	12/18/2014 17:18	12/18/2014 17:55	95.0	58.6	$0
Chesterfield 6	D4	Load was reduced to allow operations to perform Turbine Valve Freedom Tests	1.75	0.31	12/21/2014 0:04	12/21/2014 1:49	120.0	210.0	$0
Chesterfield 6	D3	Load was restricted while maintenance repaired Generator Leads Cooling Fan	8.02	1.44	12/29/2014 10:14	12/29/2014 18:15	120.0	962.0	$0
Chesterfield 6	D1	Lost 6F Cpal Feeder	1.33	0.19	12/30/2014 12:46	12/30/2014 14:06	95.0	126.6	$0
Chesterfield 7	U1	Loss of Flame Indication Caused Trip - Order 67732090	8.37	8.37	1/8/2014 20:02	1/9/2014 4:24	190.7	1,595.6	$0
Chesterfield 7	D4	Condenser backwash. No incurred charge.	1.07	0.51	1/12/2014 1:59	1/12/2014 3:03	90.7	96.8	$0
Chesterfield 7	D4	Condenser backwash. No incurred charge.	1.65	0.79	1/19/2014 1:48	1/19/2014 3:27	90.7	149.7	$0
Chesterfield 7	D4	Turbine valve checks. No incurred charge.	1.92	0.34	1/26/2014 0:02	1/26/2014 1:57	33.7	64.6	$0
Chesterfield 7	D4	Condenser backwash. No incurred charge.	1.13	0.54	1/26/2014 1:57	1/26/2014 3:05	90.7	102.8	$0
Chesterfield 7	D4	Derate for biweekly turbine valve checks. No incurred Charge.	1.92	0.34	2/9/2014 0:08	2/9/2014 2:03	33.7	64.6	$0
Chesterfield 7	D4	Derate to backwash condenser. No incurred Charge	0.97	0.46	2/9/2014 2:03	2/9/2014 3:01	90.7	87.7	$0
Chesterfield 7	D4	Derate to backwash condenser. No incurred Charge.	1.23	0.59	2/16/2014 1:57	2/16/2014 3:11	90.7	111.8	$0
Chesterfield 7	D4	Derate to perform biweekly turbine valve checks. No incurred Charge	1.27	0.22	2/23/2014 0:01	2/23/2014 1:17	33.7	42.7	$0
Chesterfield 7	D4	Derate to backwash condenser. No incurred Charge	0.97	0.46	2/23/2014 1:17	2/23/2014 2:15	90.7	87.7	$0
Chesterfield 7	D4	Derate to backwash condenser. No incurred Charge.	1.12	0.53	3/2/2014 2:03	3/2/2014 3:10	90.7	101.3	$0
Chesterfield 7	D4	Derate to perform biweekly turbine valve checks. No incurred Charge	1.00	0.21	3/9/2014 0:14	3/9/2014 1:14	40.7	40.7	$0
Chesterfield 7	D4	Derate to backwash condenser. No incurred Charge.	2.20	1.05	3/9/2014 1:14	3/9/2014 4:26	90.7	199.5	$0
Chesterfield 7	D4	Derate to backwash condenser. No incurred Charge.	1.65	0.79	3/15/2014 0:28	3/15/2014 2:07	90.7	149.7	$0
Chesterfield 7	D4	Derate to backwash condenser. No incurred charge.	1.50	0.39	3/22/2014 0:00	3/22/2014 1:30	50.0	75.0	$0
Chesterfield 7	D4	Derate for biweekly turbine and valve checks. No incurred charge.	2.47	0.53	3/22/2014 0:00	3/22/2014 2:28	40.7	100.4	$0
Chesterfield 7	D4	Derate for condenser backwash. No incurred charge.	1.73	0.82	4/5/2014 0:01	4/5/2014 1:45	90.7	157.2	$0
Chesterfield 7	D4	Derate for biweekly turbine valve checks. No incurred charges.	2.07	0.37	4/5/2014 23:52	4/6/2014 1:56	33.7	69.7	$0
Chesterfield 7	D4	Derate for condenser backwash. No incurred charge.	1.10	0.52	4/12/2014 0:10	4/12/2014 1:16	90.7	99.8	$0
Chesterfield 7	D4	Derate for condenser backwash. No incurred charge.	1.30	0.62	4/19/2014 0:01	4/19/2014 1:19	90.7	117.9	$0
Chesterfield 7	D4	Derate for biweekly turbine valve checks. No incurred charge.	1.42	0.25	4/20/2014 0:02	4/20/2014 1:27	33.7	47.8	$0
Chesterfield 7	D4	Derate to backwash condenser. No incurred charge.	1.03	0.49	4/26/2014 0:14	4/26/2014 1:16	90.7	93.7	$0
Chesterfield 7	MO	MO for compressor wash. Order #67762802	34.53	34.53	5/3/2014 0:41	5/4/2014 11:13	190.7	6,585.4	$8
Chesterfield 7	MO	MO for borescope inspection. Order #67740026	170.67	170.67	5/11/2014 0:37	5/18/2014 3:17	190.7	32,546.2	$38
Chesterfield 7	U1	Unit taken offline due to erratic voltage regulator operation.	2.65	2.65	5/18/2014 5:57	5/18/2014 8:36	190.7	505.4	$0
Chesterfield 7	D4	Derate for condenser backwash. No incurred charge.	1.58	0.75	5/24/2014 0:08	5/24/2014 1:43	90.7	143.6	$0
Chesterfield 7	D1	Unit 7 derated 5 mw due to gas turbine and HRSG performance	3,570.00	63.53	6/1/2014 0:00	10/27/2014 18:00	5.0	17,850.0	$0
Chesterfield 7	D4	Derate for turbine valve checks. No incurred charge.	1.63	0.73	6/1/2014 0:04	6/1/2014 1:42	85.7	139.9	$0
Chesterfield 7	D4	Derate for condenser backwash. No incurred charge.	1.13	0.51	6/7/2014 0:05	6/7/2014 1:13	85.7	97.1	$0
Chesterfield 7	D4	Derate for condenser backwash. No incurred charge.	1.17	0.52	6/14/2014 0:02	6/14/2014 1:12	85.7	100.0	$0
Chesterfield 7	D4	Derate for biweekly turbine valve checks. No incurred charge.	1.73	0.26	6/15/2014 0:21	6/15/2014 2:05	28.7	49.7	$0
Chesterfield 7	D4	Derate for condenser backwash. No incurred charge.	1.60	0.72	6/21/2014 0:02	6/21/2014 1:38	85.7	137.1	$0
Chesterfield 7	D4	Derate for condenser backwash. No incurred charge.	1.45	0.65	6/28/2014 0:22	6/28/2014 1:49	85.7	124.3	$0
Chesterfield 7	D4	Derate for turbine valve checks. No incurred charge.	1.43	0.22	6/29/2014 0:02	6/29/2014 1:28	28.7	41.1	$0
Chesterfield 7	D4	Derate to backwash condenser. No incurred charge.	1.22	0.55	7/5/2014 0:08	7/5/2014 1:21	85.7	104.3	$0
Chesterfield 7	D4	Derate to backwash condenser. No incurred charge.	0.90	0.40	7/12/2014 0:20	7/12/2014 1:14	85.7	77.1	$0
Chesterfield 7	D4	Derate for biweekly turbine valve checks. No incurred charge.	1.17	0.18	7/13/2014 0:02	7/13/2014 1:12	28.7	33.5	$0
Chesterfield 7	MO	MO taken to repair leak in fuel stop/ratio valve. Order 67810107	28.80	28.80	7/26/2014 0:42	7/27/2014 5:30	190.7	5,492.2	$8
Chesterfield 7	MO	MO for off-line compressor wash, order 67790644	46.82	46.82	8/23/2014 0:22	8/24/2014 23:11	190.7	8,928.0	$0

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2014 Power Generation Outage Report
(Fossil & Hydro)

Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2014 Dates Start	2014 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Chesterfield 7	PO	Unit 7 Gas Turbine Hot Gas Path Inspection	1,037.48	1,037.48	9/6/2014 1:06	10/19/2014 6:35	190.7	197,848.0	$4,395
Chesterfield 7	U1	Gas Control Not Following Reference Trip - Work Order 67847186	6.10	6.10	10/23/2014 13:39	10/23/2014 19:45	190.7	1,163.3	$4
Chesterfield 7	MO	Maintenance Outage To Prepare Gas Turbine For liquid Fuel Operation	22.15	22.15	10/24/2014 0:19	10/24/2014 22:28	190.7	4,224.0	$0
Chesterfield 7	D1	Steam Turbine Trip Due To High Condensate Return Tank Level - Work Order 67848425	1.08	1.00	10/27/2014 4:40	10/27/2014 5:45	175.7	190.3	$1
Chesterfield 7	U2	Unit 7 removed from service to repair level switch on condensate return tank.	5.68	5.68	10/27/2014 5:45	10/27/2014 11:26	190.7	1,083.7	$0
Chesterfield 7	D4	Derate for condenser backwash. No incurred charge.	1.27	0.60	11/1/2014 0:11	11/1/2014 1:27	90.7	114.9	$0
Chesterfield 7	U1	Unit tripped offline due to erratic flame detection while on fuel oil.	0.92	0.92	11/7/2014 2:29	11/7/2014 3:24	190.7	174.9	$0
Chesterfield 7	D1	Steam turbine tripped due to loss of flow circ water flowpath. No incurred charge.	0.45	0.43	11/8/2014 1:41	11/8/2014 2:08	180.7	81.3	$0
Chesterfield 7	D4	Derate for biweekly turbine valve checks. No incurred charge.	1.48	0.34	11/9/2014 0:07	11/9/2014 1:36	43.7	64.8	$0
Chesterfield 7	MO	Unit offline for replacement of liquid fuel distribution valve tubing, work order 67849019.	26.10	26.10	11/15/2014 0:24	11/16/2014 2:30	190.7	4,977.3	$8
Chesterfield 7	U1	Unit forced offline due to failure in combustion lid.	352.00	352.00	11/16/2014 5:28	11/30/2014 21:28	190.7	67,126.4	$405
Chesterfield 7	U1	Outage to check operation of atomizing air block valve AA-MOV-1.	3.53	3.53	11/30/2014 21:44	12/1/2014 1:16	190.7	673.7	$0
Chesterfield 7	D4	Derate for Condenser Backwash. No incurred charges.	0.75	0.26	12/6/2014 1:30	12/6/2014 2:15	67.5	50.6	$0
Chesterfield 7	D4	Load was reduced to allow operations to clean the condenser	1.27	0.61	12/13/2014 0:58	12/13/2014 2:14	92.5	117.2	$0
Chesterfield 7	D4	Unit 7 load reduced to perform valve checks	0.43	0.08	12/14/2014 0:17	12/14/2014 0:43	35.5	15.4	$0
Chesterfield 7	D4	Derate for condenser backwash. No incurred charge.	1.70	0.82	12/20/2014 1:57	12/20/2014 3:39	92.5	157.3	$0
Chesterfield 7	D4	Derate for condenser backwash. No incurred charge.	1.25	0.60	12/27/2014 1:49	12/27/2014 3:04	92.5	115.6	$0
Chesterfield 7	D4	Derate for biweekly steam turbine valve checks. No incurred charge.	1.35	0.25	12/28/2014 0:01	12/28/2014 1:22	35.5	47.9	$0
Chesterfield 8	D4	Backwash condenser. No Incurred Charge	0.98	0.49	1/4/2014 1:10	1/4/2014 2:09	98.0	96.3	$0
Chesterfield 8	D4	Backwash condenser. No incurred charge	2.30	1.14	1/10/2014 23:38	1/11/2014 1:56	98.0	225.4	$0
Chesterfield 8	D4	Biweekly turbine valve checks. No incurred charge.	1.65	0.34	1/12/2014 0:20	1/12/2014 1:59	41.0	67.7	$0
Chesterfield 8	MO	Borescope inspection to inspect stage 1 buckets. Order 67730798	37.75	37.75	1/14/2014 10:35	1/16/2014 0:20	198.0	7,474.5	$17
Chesterfield 8	D4	Condenser backwash. No incurred charge.	1.07	0.53	1/25/2014 2:03	1/25/2014 3:07	98.0	104.6	$0
Chesterfield 8	D4	Derate to backwash condenser. No Incurred Charge	0.57	0.28	2/1/2014 0:30	2/1/2014 1:04	98.0	55.6	$0
Chesterfield 8	D4	Derate for biweekly turbine valve checks. No Incurred Charge	1.02	0.16	2/2/2014 0:03	2/2/2014 1:04	31.0	31.5	$0
Chesterfield 8	D4	Derate to backwash condenser. No Incurred Charge	1.20	0.59	2/8/2014 0:38	2/8/2014 1:50	98.0	117.6	$0
Chesterfield 8	D4	Derate to backwash condenser. No Incurred Charge.	1.25	0.62	2/15/2014 1:44	2/15/2014 2:59	98.0	122.5	$0
Chesterfield 8	D4	Derate to backwash condenser. No incurred charge	0.88	0.44	2/22/2014 2:06	2/22/2014 2:59	98.0	86.5	$0
Chesterfield 8	U1	Unit taken offline due to fuel transfer issues.	0.65	0.65	2/27/2014 17:53	2/27/2014 18:32	198.0	128.7	$0
Chesterfield 8	PO	Unit offline for combustion inspection and stage 1 bucket replacement. Order 67599171	939.03	939.03	3/1/2014 0:34	4/9/2014 4:36	198.0	185,928.5	$2,773
Chesterfield 8	U1	Unit forced offline due to excessive steam turbine differential expansion.	2.23	2.23	4/9/2014 6:15	4/9/2014 8:29	197.5	441.0	$0
Chesterfield 8	D1	Dropped load due to high temperature alarm in the Load tunnel. No incurred charge.	2.77	0.25	4/10/2014 13:50	4/10/2014 16:36	17.5	48.4	$0
Chesterfield 8	D4	Derate for condenser backwash. No incurred charge.	1.43	0.71	4/19/2014 1:43	4/19/2014 3:09	97.5	139.7	$0
Chesterfield 8	D4	Derate for condenser backwash. No incurred charge.	1.28	0.63	4/26/2014 2:02	4/26/2014 3:19	97.5	125.1	$0
Chesterfield 8	D4	Derate for biweekly turbine valve checks. No incurred charge.	1.12	0.23	4/27/2014 0:06	4/27/2014 1:13	40.5	45.2	$0
Chesterfield 8	D4	Derate for condenser backwash. No incurred charge.	0.98	0.49	5/3/2014 1:58	5/3/2014 2:57	97.5	95.8	$0
Chesterfield 8	D4	Derate for condenser backwash. No incurred charge.	1.75	0.86	5/10/2014 1:56	5/10/2014 3:41	97.5	170.6	$0
Chesterfield 8	D4	Derate for biweekly turbine valve checks. No incurred charge.	1.60	0.33	5/11/2014 0:04	5/11/2014 1:40	40.5	64.8	$0
Chesterfield 8	D4	Derate for condenser backwash. No incurred charge.	1.02	0.50	5/17/2014 2:02	5/17/2014 3:03	97.5	99.2	$0
Chesterfield 8	D4	Derate for condenser backwash. No incurred charge.	1.17	0.58	5/18/2014 11:27	5/18/2014 12:37	97.5	113.8	$0
Chesterfield 8	D4	Derate for condenser backwash. No incurred charge.	1.78	0.88	5/24/2014 1:45	5/24/2014 3:32	97.5	173.8	$0
Chesterfield 8	D4	Derate for biweekly turbine valve checks. No incurred charge.	1.75	0.36	5/25/2014 0:05	5/25/2014 1:50	40.5	70.9	$0
Chesterfield 8	D1	Unit 8 has been derated 1.3 mw due to gas turbine performance and HRSH thermal performance.	5,137.00	29.69	6/1/2014 0:00		1.3	6,678.1	$0
Chesterfield 8	D4	Derate for condenser backwash. No incurred charge.	1.23	0.60	6/7/2014 2:02	6/7/2014 3:16	96.2	118.6	$0
Chesterfield 8	D4	Derate for biweekly turbine valve checks. No incurred charge.	1.23	0.25	6/8/2014 0:06	6/8/2014 1:20	39.2	48.3	$0
Chesterfield 8	D4	Derate for condenser backwash. No incurred charge.	1.95	0.95	6/10/2014 3:05	6/10/2014 5:02	96.2	187.6	$0
Chesterfield 8	D4	Derate for condenser backwashing. No incurred charge.	3.50	1.71	6/21/2014 0:13	6/21/2014 3:43	96.2	336.7	$0
Chesterfield 8	D4	Derate for condenser backwash. No incurred charge.	1.48	0.72	6/28/2014 2:12	6/28/2014 3:41	96.2	142.7	$0
Chesterfield 8	D4	Derate for biweekly turbine valve checks. No incurred charge.	1.57	0.31	7/6/2014 0:01	7/6/2014 1:35	39.2	61.4	$0
Chesterfield 8	D4	Derate for condenser backwash. No incurred charge.	1.07	0.52	7/12/2014 2:14	7/12/2014 3:18	96.2	102.6	$0
Chesterfield 8	D4	Derate to backwash condenser. No incurred charge.	1.23	0.60	7/19/2014 2:01	7/19/2014 3:15	96.2	118.6	$0
Chesterfield 8	D4	.	1.45	0.71	7/26/2014 2:05	7/26/2014 3:32	96.2	139.5	$0
Chesterfield 8	D1	8-CW-P-1A High Vibration, off-site repairs order 67817839	237.23	85.52	8/9/2014 3:05	8/19/2014 0:19	71.2	16,891.0	$185
Chesterfield 8	PO	Borescope Inspection & Combustion Lid Replacement	191.27	191.27	11/2/2014 0:39	11/9/2014 22:55	197.5	37,775.2	$259
Chesterfield 8	SF	Unit could not start due to oil leaks in combustion system.	27.35	27.35	11/9/2014 22:55	11/11/2014 2:16	197.5	5,401.6	$0
Chesterfield 8	U1	Unit tripped due to a loose gas tip on combustion lid 12.	47.62	47.62	11/11/2014 9:00	11/13/2014 8:37	197.5	9,404.4	$0
Chesterfield 8	U1	Unit was manually taken offline due to a gas leak in the purge system - work order 67854353	16.90	16.90	11/13/2014 9:24	11/14/2014 2:18	197.5	3,337.8	$2
Chesterfield 8	D1	Lost steam injection to gas turbine. Dropped load to reset. No incurred charges	0.37	0.29	11/15/2014 13:19	11/15/2014 13:41	156.2	57.3	$0
Chesterfield 8	D4	Derate for condenser backwash. No incurred charge.	1.13	0.55	11/22/2014 1:10	11/22/2014 2:18	96.2	108.0	$0

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2014 Power Generation Outage Report
(Fossil & Hydro)

Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2014 Dates Start	2014 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Chesterfield 8	MO	MO to repair POV3 and POV4. Orders 67837493,67837494	8.92	8.92	11/29/2014 23:31	11/30/2014 8:26	197.5	1,761.1	$2
Chesterfield 8	D4	Derate foe Condenser Backwash. No incurred charge.	0.83	0.23	12/7/2014 0:46	12/7/2014 1:24	71.2	45.1	$286
Chesterfield 8	U1	Unit 8 Gas Turbine Tripped when the Atomizing Air Hose ruptured	334.38	334.38	12/10/2014 17:11	12/24/2014 15:34	197.5	66,040.6	$2
Clover 1	D4	Curtailment due to B" ID Fan damper repairs. WO#67732368"	1.23	0.12	1/16/2014 12:22	1/16/2014 13:36	42.0	51.8	$3
Clover 1	D4	Curtailment due to DPU#17 repairs. WO#67734977	0.82	0.25	1/17/2014 13:00	1/17/2014 13:49	133.0	108.7	$1
Clover 1	D4	Curtailment due to Unit 1 B" Coal leak on corner 3. WO#67728399"	1.00	0.12	2/13/2014 10:28	2/13/2014 11:28	54.0	54.0	$2
Clover 1	D2	Curtailment due to FD fan inlet damper pot replacement. WO#67755443	1.52	0.20	3/8/2014 12:48	3/8/2014 14:19	58.0	88.0	$0
Clover 1	U2	Forced Outage to repair RH Vertical Spaced Front Assembly 22 tube leak. WO#67758074	67.52	67.52	3/15/2014 2:41	3/17/2014 22:12	440.0	29,707.5	$41
Clover 1	D1	Curtailment due to D" Feeder trip on plugged chute."	0.18	0.02	3/19/2014 22:08	3/19/2014 22:19	44.0	8.1	$0
Clover 1	D1	Curtailment due to D" Feeder trip on plugged chute."	0.12	0.02	3/20/2014 0:22	3/20/2014 0:29	68.0	8.0	$0
Clover 1	D2	B" Pulverizer coal leak."	0.85	0.12	3/23/2014 21:28	3/23/2014 22:19	63.0	53.6	$0
Clover 1	D2	Curtailment due to loss of drop 34 (Bad Quality Indication).	2.52	0.48	4/2/2014 12:14	4/2/2014 14:45	83.0	208.9	$0
Clover 1	D1	Curtailment due to C" Hot and Cold air dampers rejecting to manual. WO#67771354"	1.03	0.23	4/14/2014 19:32	4/14/2014 20:34	99.0	102.3	$1
Clover 1	D1	Curtailment due to C" Hot and Cold air dampers rejecting to manual. WO#67771354"	1.07	0.21	4/15/2014 17:25	4/15/2014 18:29	87.0	92.8	$0
Clover 1	D2	Curtailment due to Plant Motor B" Alarm and loss of communication Drop 31 Cab 313."	1.42	0.49	4/22/2014 11:08	4/22/2014 12:33	152.0	215.4	$0
Clover 1	PO	Unit 1 Spring Planned Outage	208.47	208.47	5/3/2014 0:07	5/11/2014 16:35	440.0	91,725.5	$1,441
Clover 1	D4	Curtailment due to Drop 24 repairs and due to A" Exhauster Balancing repairs. WO#67781622"	13.05	4.27	5/16/2014 1:04	5/16/2014 14:07	144.0	1,879.2	$1
Clover 1	D1	Curtailment due to B" ID Fan rejecting to manual. Damper position rejected to 25% open. WO#67782829"	11.10	6.48	5/18/2014 7:54	5/18/2014 19:00	257.0	2,852.7	$1
Clover 1	D4	Curtailment due to EH Fluid leak on Boiler Feedpump LP Govenor Valve Cylinder. WO#67791854	3.70	0.99	6/10/2014 5:30	6/10/2014 9:12	118.0	436.6	$2
Clover 1	D4	Curtailment due to DPU 35 fault repairs. Bad Serial Communication Module. WO#67799101	3.05	1.42	6/27/2014 20:20	6/27/2014 23:23	205.0	625.3	$7
Clover 1	D4	Curtailment due to DPU 35 fault repairs. Bad Fiber Optic cable. WO#67799101	2.32	0.91	6/30/2014 14:11	6/30/2014 16:30	173.0	400.8	$0
Clover 1	D2	Curtailment due stuck Right Side Reheat Stop Valve. WO#67804635	3.98	3.02	7/5/2014 0:46	7/5/2014 4:45	334.0	1,330.3	$0
Clover 1	U1	Automatic Trip on Hight Drum level due to C" Coal Mill trip. WO#67804635"	7.12	7.12	7/5/2014 8:09	7/5/2014 15:16	440.0	3,131.5	$0
Clover 1	U2	Forced Outage due to tube leak in RH Vertical Spaced Front Assembly 3 rear tube 6. WO# 67809844	73.48	73.48	7/20/2014 21:18	7/23/2014 22:47	440.0	32,332.5	$29
Clover 1	D2	Curtailment due to A" Mill pyrite section fire. WO#67820628"	0.77	0.13	8/18/2014 11:26	8/18/2014 12:12	73.0	56.0	$0
Clover 1	D1	Unit 1 Derate due to I/O or Power Failure Causing Coal Mill trip.	0.62	0.10	9/2/2014 12:58	9/2/2014 13:35	73.0	45.0	$0
Clover 1	U1	Unit 1 Automatic Trip due to loss of DPU 34 and 84 communication. WO 67827036	11.27	11.27	9/4/2014 14:04	9/5/2014 1:20	440.0	4,957.5	$6
Clover 1	D1	Unit 1 derate due to reheat stop valve stuck close and would not open for a short amount of time.	5.43	4.69	9/20/2014 5:50	9/20/2014 11:16	380.0	2,064.5	$0
Clover 1	U2	U1 Forced Outage Due to Rear Reheater Tube Leak WO 67835844	79.78	79.78	9/24/2014 14:18	9/27/2014 22:03	440.0	35,104.5	$38
Clover 1	PD	Planned derate due to RAT outage.	15.35	6.94	10/17/2014 7:12	10/17/2014 22:33	199.0	3,054.7	$0
Clover 1	D1	Curtailment due to B" feeder trip on plugged chute."	0.82	0.17	10/22/2014 19:30	10/22/2014 20:19	93.0	76.0	$0
Clover 1	D1	Curtailment due to D" feeder trip on error code 11 (motor starter fault)."	0.25	0.03	10/27/2014 17:37	10/27/2014 17:52	53.0	13.3	$0
Clover 1	D4	Curtailment due to A ID" Fan damper drive repair. WO#67854042"	1.37	0.25	11/13/2014 11:05	11/13/2014 12:27	81.0	110.7	$0
Clover 1	D2	Curtailment due to Right Side RH Stop Valve stuck closed.	1.83	1.39	11/22/2014 4:15	11/22/2014 6:05	334.0	612.2	$0
Clover 1	D2	Curtailment due to Drop 32 reset. WO#67858340	1.97	0.90	11/24/2014 11:11	11/24/2014 13:09	201.0	395.4	$0
Clover 1	D1	Curtailment due to A" circulating water pump failure. Broken Pump Shaft. WO#67859318"	253.93	118.31	11/29/2014 10:32	12/10/2014 0:28	205.0	52,056.3	$397
Clover 1	D1	Curtailment due to B" coal feeder on plugged chute."	0.18	0.03	12/12/2014 2:25	12/12/2014 2:36	75.0	13.7	$0
Clover 1	D1	Unit 1 Derate due to fire/hot embers in pyrite section of D coal mill.	0.68	0.09	12/18/2014 2:07	12/18/2014 2:48	57.0	38.9	$0
Clover 1	D1	Unit 1 Derate due to fire/hot embers in pyrite section of D coal mill. WO # 67866314	9.23	1.91	12/18/2014 4:05	12/18/2014 13:19	91.0	840.2	$3
Clover 2	D1	Curtailment due to E" feeder trip on plugged chute."	0.32	0.05	1/7/2014 17:32	1/7/2014 17:51	72.2	22.9	$0
Clover 2	D1	Curtailment due to E" feeder trip on wet coal."	0.70	0.33	1/12/2014 14:11	1/12/2014 14:53	207.2	145.0	$0
Clover 2	D2	Curtailment due to Drop#33 repairs. WO#67741792	1.48	0.36	2/2/2014 15:35	2/2/2014 17:04	106.2	157.5	$0
Clover 2	U2	Forced Outage due to a Reheater Tube Leaking Vertical Spaced Front Assembly 4. WO#67744919	63.80	63.80	2/10/2014 13:08	2/13/2014 4:56	437.2	27,893.4	$24
Clover 2	D1	Curtailment due to A" feeder trip on code 8 (No material on belt)."	0.40	0.02	2/14/2014 23:02	2/14/2014 23:26	26.2	10.5	$0
Clover 2	D2	Curtailment due to a Reheater Tube Leak. WO#67752122	19.25	4.02	2/26/2014 17:30	2/27/2014 12:45	91.2	1,755.6	$0
Clover 2	U2	Forced Outage due to a Reheater Tube Leak.	35.23	35.23	2/27/2014 12:45	2/28/2014 23:59	437.2	15,403.9	$0
Clover 2	PO	U2 Spring 2014 Planned Outage	1,358.43	1,358.43	3/1/2014 0:00	4/26/2014 15:26	437.2	593,906.9	$12,987
Clover 2	PO	Unit 2 Spring 2014 Planned Outage - Turbine Overspeed Testing	4.90	4.90	4/26/2014 22:11	4/27/2014 3:05	437.1	2,141.8	$0
Clover 2	MO	U2 Planned Outage Extension - DCIS Upgrade Testing (Ovation)	55.32	55.32	4/29/2014 2:03	5/1/2014 9:22	437.1	24,179.1	$0
Clover 2	U1	Automatic trip due to a controls configuration change	1.78	1.78	5/3/2014 14:20	5/3/2014 16:07	437.1	779.3	$0
Clover 2	D1	Curtailment due to E" Feeder trip on error code 8 (no coal on belt)."	0.18	0.03	5/18/2014 8:12	5/18/2014 8:23	73.1	13.4	$0
Clover 2	D1	Unit 2 Curtailment due to failed real power test. Derate from rated capacity of 437.1 nMWs to 436.4 nMWS.	4,392.98	6.78	6/1/2014 0:00	11/30/2014 23:59	0.7	3,075.1	$0
Clover 2	D1	Curtailment due to A" elevation trip. "A" Feeder tripped with "B" feeder below 50%."	0.48	0.13	7/3/2014 19:38	7/3/2014 20:07	116.4	56.2	$0
Clover 2	D1	Curtailment due to the simultaneous losses of Drop 35 and its backup, Drop 85. WO#67806661	2.92	1.39	7/10/2014 16:55	7/10/2014 19:50	208.4	607.9	$0
Clover 2	D2	Curtailment due to the A" Boiler Circulating recirc valve at 100% open. WO67806743"	4.10	0.62	7/11/2014 12:00	7/11/2014 16:06	66.4	272.2	$0
Clover 2	D2	curtailment due to moog valve failure on Governor valve #2. WO#67806872	1.72	0.63	7/25/2014 12:00	7/25/2014 13:43	160.4	275.4	$0
Clover 2	D2	Curtailment due to B" Mill coal leak. WO#67821232"	0.67	0.05	8/20/2014 11:57	8/20/2014 12:37	31.4	20.9	$0
Clover 2	PO	Unit 2 Fall Planned Outage for Water Air Heater Replacement.	156.68	156.68	9/19/2014 23:50	9/26/2014 12:31	437.1	68,486.1	$112
Clover 2	D1	Unit 2 A" TDBFP Trip Due to #10 High Bearing Temperature and Failed RTD Thermocouple. WO# 67842177"	6.33	1.53	10/10/2014 7:31	10/10/2014 13:51	105.4	667.5	$0

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Clover 2	PD	Planned derate due to RAT outage.	16.35	7.23	10/17/2014 7:12	10/17/2014 23:33	193.4	3,162.1	$0
Clover 2	D1	Curtailment due to E" feeder trip."	0.37	0.05	10/22/2014 6:13	10/22/2014 6:35	59.4	21.8	$0
Clover 2	D1	Curtailment due to B" feeder trip on low air flow. WO#67847146"	0.75	0.13	10/23/2014 10:13	10/23/2014 10:58	73.4	55.1	$0
Clover 2	D1	Curtailment due to E" Feeder trip with no material on belt."	0.37	0.05	10/30/2014 9:28	10/30/2014 9:48	63.4	23.3	$0
Clover 2	D1	Curtailment due to E" Feeder trip with no material on belt."	0.27	0.04	10/30/2014 14:33	10/30/2014 14:49	61.4	16.4	$0
Clover 2	D1	Curtailment due to E" Feeder trip with no code. WO#67850436"	0.05	0.01	10/31/2014 2:39	10/31/2014 2:42	120.4	6.0	$0
Clover 2	D1	Curtailment due to E" Feeder trip with no code."	0.28	0.09	11/5/2014 1:37	11/5/2014 1:54	145.4	41.1	$0
Clover 2	D1	Curtailment due to E" Feeder trip on error code 08 (No material on belt)."	0.22	0.02	11/8/2014 3:27	11/8/2014 3:40	46.4	10.1	$0
Clover 2	D2	Curtailment due to C" Mill coal leak. WO#67849803"	5.38	1.22	11/12/2014 8:53	11/12/2014 14:16	99.4	535.1	$0
Clover 2	D1	Curtailment due to E" Feeder trip."	2.35	0.84	11/15/2014 2:59	11/15/2014 5:20	156.4	367.5	$0
Clover 2	D1	Curtailment due to E" Feeder trip on Code 00 (Overload)."	0.17	0.02	11/18/2014 5:07	11/18/2014 5:17	42.4	7.1	$0
Clover 2	D2	Curtailment due to loss of TEA-ABV-23 and TEA-ABV-24. WO#67858130	3.55	0.46	11/23/2014 17:27	11/23/2014 21:00	56.4	200.2	$0
Clover 2	D1	Curtailment due to E" feeder trip on error code 8 (no coal on belt)"	0.45	0.03	12/9/2014 8:03	12/9/2014 8:30	33.1	14.9	$0
Clover 2	D4	Curtailment due to drop 61. WO#67864137	4.33	1.38	12/9/2014 18:30	12/9/2014 22:50	139.1	602.7	$0
Clover 2	D1	Curtailment due to E" feeder trip (no coal flow)."	0.25	0.03	12/11/2014 6:13	12/11/2014 6:28	47.1	11.8	$0
Clover 2	D2	Curtailment due to B" ID Fan Inlet Damper mismatch."	0.87	0.06	12/15/2014 13:25	12/15/2014 14:17	30.1	26.1	$0
Clover 2	D1	Curtailment due to E" feeder trip. Hot Air Gate would not open."	0.23	0.03	12/16/2014 5:22	12/16/2014 5:36	64.1	14.9	$0
Clover 2	MO	Maintenance Outage due to Extended Sidewall tube leak and Dead Air Space Tube leak. WO#67867424	36.00	36.00	12/20/2014 1:12	12/21/2014 13:12	437.1	15,735.6	$0
Cushaw 1	NC	Unit 5 tripped off line when generating due to high bearing temperature. Incremental cost occurred to	8,760.00	-	8/20/2012 8:35		-	-	$0
Cushaw 1	NC	The unit is out of service due to the water bearing making noise. Incremental cost occurred to 67659948	8,760.00	-	8/7/2013 13:00		-	-	$0
Cushaw 1	U1	The river flow is too great to support the operation of any units. No incremental cost occurred.	33.62	33.62	12/30/2013 4:10	1/2/2014 9:37	2.0	67.2	$0
Cushaw 1	U1	Due to the river freezing there is no water supply to operate the units. No incremental cost occurred.	291.92	291.92	1/24/2014 6:25	2/5/2014 10:20	2.0	583.8	$0
Cushaw 1	MO	An operator was performing routine maintenance on the unit. No incremental cost occurred.	2.08	2.08	2/11/2014 10:50	2/11/2014 12:55	2.0	4.2	$0
Cushaw 1	D1	Unit 3 was taken off line due to a grease system alarm. No incremental cost occurred.	11.25	0.56	2/11/2014 19:35	2/12/2014 6:50	0.1	1.1	$0
Cushaw 1	NC	Unit 3 tripped off line due to high current. Incremental cost occurred to 67757998	171.28	-	3/13/2014 9:00	3/20/2014 12:17	-	-	$0
Cushaw 1	NC	Unit 1 grease system came into alarm and would not reset. No incremental cost occurred.	104.65	-	4/6/2014 1:11	4/10/2014 9:50	-	-	$0
Cushaw 1	NC	Unit 3 grease system can into alarm. No incremental cost occurred.	95.23	-	4/18/2014 11:00	4/22/2014 10:14	-	-	$0
Cushaw 1	U1	All units are forced off because of too much river flow. No incremental cost occurred.	94.63	94.63	4/30/2014 13:57	5/4/2014 12:35	2.0	189.3	$0
Cushaw 1	D1	Due to lack of staff units 1 and 2 could not be started. No incremental cost occurred.	22.18	1.11	5/5/2014 12:35	5/6/2014 10:46	0.1	2.2	$0
Cushaw 1	U1	Too great of water flow to support operations of any units. No incremental cost occurred.	95.47	95.47	5/16/2014 10:57	5/20/2014 10:25	2.0	190.9	$0
Cushaw 1	D1	Due to lack of river flow only one unit could be operated. No incremental cost occurred.	90.75	4.54	5/27/2014 10:16	5/31/2014 5:01	0.1	9.1	$0
Cushaw 1	D1	Due to low river flow only one unit can be operated. No incremental cost occurred.	65.15	3.26	6/1/2014 18:01	6/4/2014 11:10	0.1	6.5	$0
Cushaw 1	D1	The river flow will only support the operation of one unit. No incremental cost occurred.	145.83	7.29	6/4/2014 12:10	6/10/2014 14:00	0.1	14.6	$0
Cushaw 1	D1	Due to low river flow only one unit can be operated. No incremental cost occurred.	229.07	11.45	6/10/2014 18:01	6/20/2014 7:05	0.1	22.9	$0
Cushaw 1	U1	The river flow will not support the operations of any units. No incremental cost occurred.	128.05	128.05	6/20/2014 7:05	6/25/2014 15:08	2.0	256.1	$0
Cushaw 1	D1	The river flow will only support the operation of one unit. No incremental cost occurred.	72.03	3.60	6/25/2014 15:08	6/28/2014 15:10	0.1	7.2	$0
Cushaw 1	U1	The river flow will not support the operation of any units. No incremental cost occurred	621.50	621.50	6/28/2014 15:10	7/24/2014 12:40	2.0	1,243.0	$0
Cushaw 1	D1	The river flow will only support the operations of one unit. No incremental cost occurred.	2.60	0.12	7/24/2014 12:24	7/24/2014 15:00	0.1	0.3	$0
Cushaw 1	U1	The river flow will not support the operation of any units. No incremental cost occurred	187.27	187.27	7/24/2014 15:00	8/1/2014 10:16	2.0	374.5	$0
Cushaw 1	D1	The river flow will support the operations of one unit. No incremental cost occurred.	0.85	0.04	8/1/2014 10:16	8/1/2014 11:07	0.1	0.1	$0
Cushaw 1	U1	The river flow will not support the operation of any units. No incremental cost occurred	286.33	286.33	8/1/2014 11:07	8/13/2014 9:27	2.0	572.7	$0
Cushaw 1	D1	The river flow will support the operations of one unit. No incremental cost occurred.	5.23	0.26	8/13/2014 9:27	8/13/2014 14:41	0.1	0.5	$0
Cushaw 1	U1	No units available to operate, unit 1 will not pass the meggar test and unit 3 field contactor will not close. Incremental cost occurred to 6819290	331.80	331.80	8/13/2014 14:41	8/27/2014 10:29	2.0	663.6	$0
Cushaw 1	U1	The river flow will not support the operations of any units. No incremental cost occurred.	1,023.47	1,023.47	8/27/2014 15:17	10/9/2014 6:45	2.0	2,046.9	$0
Cushaw 1	D1	The river flow will support the operations of one unit. No incremental cost occurred.	11.60	0.58	10/9/2014 6:45	10/9/2014 18:21	0.1	1.2	$0
Cushaw 1	U1	The river flow will not support the operations of any units. No incremental cost occurred.	99.32	99.32	10/9/2014 18:21	10/13/2014 21:40	2.0	198.6	$0
Cushaw 1	D1	The river flow has risen to the point a unit can be operated. No incremental cost occurred.	80.67	4.03	10/13/2014 21:40	10/17/2014 6:20	0.1	8.1	$0
Cushaw 1	MO	Special metering needed to calibrate the unit's meters. No incremental cost occurred.	11.65	11.65	10/17/2014 6:20	10/17/2014 17:59	2.0	23.3	$0
Cushaw 1	D1	The river flow will only support the operations of one unit. No incremental cost occurred.	160.85	8.04	10/17/2014 17:59	10/24/2014 10:50	0.1	16.1	$0
Cushaw 1	MO	Special Metering needed to calibrate the unit's meter. No incremental cost occurred.	2.20	2.20	10/24/2014 10:50	10/24/2014 13:02	2.0	4.4	$0
Cushaw 1	D1	The river flow will only support the operation of one unit. No incremental cost occurred.	18.13	0.91	10/24/2014 13:02	10/25/2014 7:10	0.1	1.8	$0
Cushaw 1	U1	All units off line, the river flow will not support the operation of any units.	604.02	604.02	10/25/2014 7:10	11/19/2014 10:11	2.0	1,208.0	$0
Cushaw 1	D1	The river flow will support the operation of one unit. No incremental cost occurred.	45.35	2.27	11/19/2014 10:11	11/21/2014 7:32	0.1	4.5	$0
Cushaw 1	U1	The river flow has decreased to the point no units can be operated. No incremental cost occurred.	118.13	118.13	11/21/2014 7:32	11/26/2014 5:40	2.0	236.3	$0
Cushaw 1	D1	The river flow will only support the operation of one unit. No incremental cost occurred.	139.42	6.97	11/26/2014 5:40	12/2/2014 1:05	0.1	13.9	$0
Cushaw 1	NC	Unit 3 tripped off line. Incremental cost occurred to 6781337.	718.92	-	12/2/2014 1:05		-	-	$0
Cushaw 1	U1	Unit 3 tripped off line. Incremental cost occurred to 6781337.	179.30	179.30	12/2/2014 1:05	12/9/2014 12:23	2.0	358.6	$0
Cushaw 1	D1	River flow will support additional units but none are available. No incremental cost occurred.	170.03	-	12/2/2014 10:21	12/9/2014 12:23	0.1	[illegible]	$0

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* Outage Type Key

U# = Unplanned Outage	NC = Non curtailing Event
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PO = Planned Outage	PE = Extension of Planned Outage
SF = Start Failure	D# = Derates
PD = Planned Derating	DM = Maintenance Derate Extension

2014 Power Generation Outage Report
(Fossil & Hydro)

Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2014 Dates Start	2014 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Cushaw 1	D1	The river flow will only support the operation of one unit. No incremental cost occurred.	240.75	12.04	12/14/2014 16:30	12/24/2014 17:15	0.1	24.1	$0
Cushaw 1	D1	The river flow will only support the operation of one unit. No incremental cost occurred.	11.72	0.59	12/31/2014 12:17	1/5/2015 9:43	0.1	1.2	$0
Darbytown CT1	U1	67732085 - LOSS OF 480 VOLT BUS POTENTIAL	0.88	0.88	1/9/2014 8:52	1/9/2014 9:45	85.0	75.1	$0
Darbytown CT1	MO	67733586 - AUXILIARY AC LUBE OIL PUMP MOTOR BREAKER REPLACEMENT	8.00	8.00	1/14/2014 7:00	1/14/2014 15:00	85.0	680.0	$0
Darbytown CT1	U1	67765992 - AUX LUBE OIL PUMP MOTOR FAILURE	78.18	78.18	3/31/2014 6:15	4/3/2014 12:26	85.0	6,645.6	$6
Darbytown CT1	MO	67777676 - WATER INJECTION BREAKER UPGRADE	59.00	59.00	5/5/2014 7:00	5/7/2014 18:00	85.0	5,015.0	$4
Darbytown CT1	MO	67757048 - Compressor Wash	34.52	34.52	5/21/2014 7:00	5/22/2014 17:31	85.0	2,933.9	$0
Darbytown CT1	MO	67787288 - Oil Cleanup & Exhaust Inspection	32.58	32.58	5/29/2014 7:00	5/30/2014 15:35	85.0	2,769.6	$0
Darbytown CT1	U1	67800878 - 86G-1 lock out tripped unit due to loose wire termination in generator accessory compartment	0.78	0.78	7/1/2014 11:13	7/1/2014 12:00	85.0	66.6	$0
Darbytown CT1	PO	67831480 - plant maintenance	854.33	854.33	11/12/2014 0:01	12/17/2014 14:21	85.0	72,618.3	$0
Darbytown CT2	D1	67730856 - HIGH EXHAUST SPREAD	348.50	102.50	1/7/2014 3:30	1/21/2014 16:00	25.0	8,712.5	$0
Darbytown CT2	MO	67777677 - TEMP SPREAD TROUBLESHOOTING	59.00	59.00	5/5/2014 7:00	5/7/2014 18:00	85.0	5,015.0	$4
Darbytown CT2	MO	67757049 - Compressor Wash & Diffuser Repair	32.33	32.33	5/20/2014 7:00	5/21/2014 15:20	85.0	2,748.3	$0
Darbytown CT2	U1	67786196 - Fire in Turbine Compartment	3.92	3.92	5/22/2014 14:46	5/22/2014 18:41	85.0	332.9	$0
Darbytown CT2	MO	67786196 - Oil & Exhaust Leak Repair	127.75	127.75	5/23/2014 7:00	5/28/2014 14:45	85.0	10,858.8	$15
Darbytown CT2	PO	67831886, 67831887 - BOP Maintenance	280.10	280.10	10/6/2014 0:01	10/17/2014 16:07	85.0	23,808.5	$0
Darbytown CT2	U1	67858487 - voltage regulator trouble	1.17	1.17	11/24/2014 9:13	11/24/2014 10:23	85.0	99.2	$0
Darbytown CT2	U1	67866352 - trip of 230KV bus #1 made unit available	2.03	2.03	12/17/2014 10:43	12/17/2014 12:45	85.0	172.8	$0
Darbytown CT3	U1	67731407 - EXHAUST TEMP SPREAD TRIP	0.37	0.37	1/7/2014 20:33	1/7/2014 20:55	85.0	31.2	$0
Darbytown CT3	U1	67739518 - LOSS OF LIQUID FUEL	3.20	3.20	1/24/2014 6:21	1/24/2014 9:33	85.0	272.0	$1
Darbytown CT3	MO	67757050 - Compressor Wash	31.55	31.55	5/22/2014 7:00	5/23/2014 14:33	85.0	2,681.8	$0
Darbytown CT3	MO	67757050 - Compressor Wash	32.58	32.58	5/29/2014 7:00	5/30/2014 15:35	85.0	2,769.6	$0
Darbytown CT3	U1	67812849 - 45FTX relay being activated	1.53	1.53	7/26/2014 13:58	7/26/2014 15:30	85.0	130.3	$0
Darbytown CT3	SF	67812849 - 45FTX relay being activated	5.27	5.27	7/26/2014 16:12	7/26/2014 21:28	85.0	447.7	$3
Darbytown CT3	MO	GSU transformer work	7.67	7.67	8/12/2014 7:00	8/12/2014 14:40	85.0	651.7	$0
Darbytown CT3	PO	67837418 - plant maintenance	403.67	403.67	10/20/2014 0:01	11/5/2014 16:41	85.0	34,311.7	$3
Darbytown CT3	U1	67855084 - de-energized 230KV buss	2.50	2.50	11/14/2014 20:00	11/14/2014 22:30	85.0	212.5	$29
Darbytown CT4	U1	67779998 - HIGH GENERATOR BEARING DRAIN TEMPERATURES	6.25	6.25	5/8/2014 15:45	5/8/2014 22:00	85.0	531.3	$0
Darbytown CT4	MO	67757051 - Compressor Wash	7.55	7.55	5/23/2014 7:00	5/23/2014 14:33	85.0	641.8	$0
Darbytown CT4	MO	67757051 - Compressor Wash	32.58	32.58	5/29/2014 7:00	5/30/2014 15:35	85.0	2,769.6	$0
Darbytown CT4	PO	67851060 - atomizing air cooler replacement	280.98	280.98	11/3/2014 0:01	11/14/2014 17:00	85.0	23,883.6	$0
Darbytown CT4	U1	67855084 - failed generator breaker	93.23	93.23	11/14/2014 19:54	11/18/2014 17:08	85.0	7,924.8	$2
Elizabeth River 1	SF	67729681 - SYNC RELAY ISSUE	2.45	2.45	1/3/2014 14:44	1/3/2014 17:11	109.0	267.1	$0
Elizabeth River 1	U1	67730807 - STATION STATION BREAKER	2.77	2.77	1/6/2014 17:52	1/6/2014 20:38	109.0	301.6	$0
Elizabeth River 1	U1	67730743 - BLEED VALVE TRIP	1.52	1.52	1/7/2014 7:55	1/7/2014 9:26	109.0	165.4	$1
Elizabeth River 1	PO	67755019 - Borescope Inspection	103.78	103.78	5/5/2014 7:00	5/9/2014 14:47	109.0	11,312.3	$5
Elizabeth River 1	U1	67803581 - Failed circuit board	3.25	3.25	7/2/2014 13:05	7/2/2014 16:20	109.0	354.3	$0
Elizabeth River 1	MO	67787279 - Support crane operation on Unit 2	11.13	11.13	9/13/2014 8:06	9/13/2014 19:14	109.0	1,213.5	$0
Elizabeth River 1	MO	67832125 - First Row Turbine Blade Ring Inspection	936.00	936.00	9/17/2014 0:01	10/26/2014 0:01	109.0	102,024.0	$0
Elizabeth River 1	PO	67832125 - row 1 and row 2 turbine blade replacement	1,380.27	1,380.27	10/26/2014 0:01	12/22/2014 11:17	109.0	150,449.1	$1,361
Elizabeth River 2	U1	67729446 - STARTING MOTOR RELAY FAILURE	27.08	27.08	1/3/2014 14:00	1/4/2014 17:05	107.0	2,897.9	$3
Elizabeth River 2	U1	67730808 - LOSS OF STATION SERVICE	2.77	2.77	1/6/2014 17:52	1/6/2014 20:38	107.0	296.1	$0
Elizabeth River 2	MO	67748545 - INLET GUIDE VANE POSITIONER REPLACEMENT	8.10	8.10	4/2/2014 7:00	4/2/2014 15:06	107.0	866.7	$3
Elizabeth River 2	PO	67755020 - Borescope Inspection	111.27	111.27	5/5/2014 7:00	5/9/2014 22:16	107.0	11,905.6	$4
Elizabeth River 2	U1	67788523 - Westation server down	106.00	106.00	5/30/2014 7:00	6/3/2014 17:00	107.0	11,342.0	$20
Elizabeth River 2	U1	67817022 - Unit tripped on high vibration	3.60	3.60	8/6/2014 9:54	8/6/2014 13:30	107.0	385.2	$0
Elizabeth River 2	MO	pre-outage preparation	96.00	96.00	9/2/2014 0:01	9/6/2014 0:01	107.0	10,272.0	$0
Elizabeth River 2	PO	Major Hot Gas Path Inspection	2,808.98	2,808.98	9/6/2014 0:01	1/9/2015 9:21	107.0	300,561.2	$2,544
Elizabeth River 3	SF	67729682 - SYNC RELAY ISSUE	3.18	3.18	1/3/2014 14:44	1/3/2014 17:55	109.0	346.9	$0
Elizabeth River 3	U1	67729445 - GAS PURGE VALVE LEAKING	27.53	27.53	1/3/2014 17:58	1/4/2014 21:30	109.0	3,001.1	$9
Elizabeth River 3	U1	67731880 - HIGH BLADE PATH TEMP SPREAD	1.67	1.67	1/6/2014 18:58	1/6/2014 20:38	109.0	181.7	$0
Elizabeth River 3	SF	67730743 - BLEED VALVE FAILURE	6.50	6.50	1/7/2014 6:00	1/7/2014 12:30	109.0	708.5	$1
Elizabeth River 3	SF	67740493 - FIRE SYSTEM MANUAL PULL STATION IN ELECTRICAL PKG FAILED	2.23	2.23	1/30/2014 4:48	1/30/2014 7:02	109.0	243.4	$0
Elizabeth River 3	PO	67745163 - Borescope Inspection	581.00	581.00	5/5/2014 7:00	5/29/2014 12:00	109.0	63,329.0	$8
Elizabeth River 3	MO	67787279 - Support crane operation on Unit 2	11.13	11.13	9/13/2014 8:06	9/13/2014 19:14	109.0	1,213.5	$0
Elizabeth River 3	MO	67831758 - First Row Turbine Blade Ring Inspection	970.92	970.92	9/17/2014 0:01	10/27/2014 10:56	109.0	105,830.0	$355
Elizabeth River 3	MO	67852257 - switching for Unit 2 outage work	15.38	15.38	12/15/2014 6:00	12/15/2014 21:23	109.0	1,676.7	$0
Gaston 1	U1	(67736396) FO GA1 FAULTY WICKET GATE SENSOR	14.92	14.92	1/15/2014 19:00	1/16/2014 9:55	55.0	820.4	$0
Gaston 1	U1	(67736396) FO GA 1 WICKET GATE POSITION INDICATION FAULTY	91.25	91.25	1/19/2014 19:00	1/23/2014 14:15	55.0	5,018.3	$0

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SF = Start Failure	D# = Derates
PD = Planned Derating	DM = Maintenance Derate Extension

2014 Power Generation Outage Report
(Fossil & Hydro)

Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2014 Dates Start	2014 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Gaston 1	U1	(67736396) FO GA 1 WICKET GATE SENSOR INDICATION INCORRECT	10.83	10.83	1/24/2014 6:25	1/24/2014 17:15	55.0	595.8	$0
Gaston 1	U1	FO GA 1 WICKET GATE SHEAR PIN SWITCH FAILED (67752579)	4.17	4.17	2/11/2014 7:00	2/11/2014 11:10	55.0	229.2	$0
Gaston 1	MO	GA UNIT 1 MO- REPLACE WICKET GATE SERVO BUSHING	70.50	70.50	3/4/2014 12:00	3/7/2014 10:30	55.0	3,877.5	$0
Gaston 1	U1	GA UNIT 1 FO DUE TO BROKEN WIRE IN SHEAR PIN WIRING	1.25	1.25	3/26/2014 14:10	3/26/2014 15:25	55.0	68.8	$0
Gaston 1	U1	FO GA1 SHEAR PIN WIRING ASSEMBLY FAILURE	3.30	3.30	5/4/2014 14:02	5/4/2014 17:20	55.0	181.5	$0
Gaston 1	MO	MO GA1 Relay Project Testing	10.72	10.72	5/15/2014 7:00	5/15/2014 17:43	55.0	589.4	$0
Gaston 1	U1	FO GA1 PT Disconnect open causing abnormal voltage indications	0.33	0.33	5/15/2014 18:35	5/15/2014 18:55	55.0	18.3	$0
Gaston 1	U1	FO Due to Water in Wheel Pit	11.97	11.97	10/22/2014 19:00	10/23/2014 6:58	55.0	658.2	$0
Gaston 2	MO	GA2 MO Relay Panel Testing	10.72	10.72	5/15/2014 7:00	5/15/2014 17:43	55.0	589.4	$0
Gaston 2	U1	FO GA2 PT Disconnect Opened	0.33	0.33	5/15/2014 18:35	5/15/2014 18:55	55.0	18.3	$0
Gaston 2	U1	FO GA2 Wicket Gate Position Indicator failed	2.97	2.97	8/4/2014 14:01	8/4/2014 16:59	55.0	163.2	$0
Gaston 3	MO	GA3 MO TO TIE IN NEW EMERGENCY DIESEL	1.73	1.73	1/16/2014 10:01	1/16/2014 11:45	55.0	95.3	$0
Gaston 3	MO	MO GA GSU2 RELAY PNL REPLACEMENT(67777232)	490.48	490.48	4/26/2014 0:01	5/16/2014 10:30	55.0	26,976.6	$0
Gaston 3	D1	Derate due to failed Capacity Test	5,136.98	46.05	6/1/2014 0:01		0.5	2,568.5	$0
Gaston 3	U1	GA1 FO (67859073) Faulty Wicket Gate Position Indicator	71.00	71.00	11/26/2014 17:00	11/29/2014 16:00	55.0	3,905.0	$0
Gaston 4	PO	GA 4 PLANNED OUTAGE FOR CAVITATION REPAIR (67747102)	2,158.98	2,158.98	3/1/2014 0:00	5/29/2014 23:59	55.0	118,744.1	$84
Gaston 4	PE	PE GA4 Wicket Gates would not open	153.27	153.27	5/29/2014 23:59	6/5/2014 9:15	55.0	8,429.7	$0
Gaston 4	U1	FO GA4 AC Sump Pump Contacts did not energize pump motor intermittently	19.25	19.25	6/16/2014 17:30	6/17/2014 12:45	55.0	1,058.8	$0
Gaston 4	U1	FO Due to High Water in Wheel Pit	3.00	3.00	12/15/2014 15:00	12/15/2014 18:00	55.0	165.0	$0
Gordonsville 1	U1	SC33 WO# 67742290 Unit tripped on a loss of HP Drum Level.	1.15	1.15	1/7/2014 1:19	1/7/2014 2:28	109.0	125.4	$1
Gordonsville 1	U1	SC33 WO# 67731895 Unit failed to enter Pre-Mix Steady State.	3.37	3.37	1/7/2014 6:30	1/7/2014 9:52	109.0	367.0	$9
Gordonsville 1	SF	SC33 WO# 67742262 Vacuum pumps would not start.	1.87	1.87	1/8/2014 5:22	1/8/2014 7:14	109.0	203.5	$2
Gordonsville 1	MO	Fuel Oil OPS Restoration.	48.82	48.82	1/24/2014 12:45	1/26/2014 13:34	109.0	5,321.1	$22
Gordonsville 1	MO	Fuel oil OPS Restoration.	28.52	28.52	1/26/2014 16:21	1/27/2014 20:52	109.0	3,108.4	$5
Gordonsville 1	SF	SC33 WO#67744936 - Unit Startup Failure due to blown fuses FU14 and FU19 in the Power Distribution Core in the CT MKV.	6.10	6.10	2/11/2014 8:00	2/11/2014 14:06	109.0	664.9	$0
Gordonsville 1	PO	Hot Gas Path and Combustion Inspection, 230kv breaker replacements.	1,136.45	1,136.45	3/21/2014 2:11	5/7/2014 10:38	109.0	123,873.1	$1,456
Gordonsville 1	PO	Hot Gas Path and Combustion Inspection, 230kv breaker replacements after test run to adjust tuning pins in CT.	39.20	39.20	5/7/2014 17:37	5/9/2014 8:49	109.0	4,272.8	$50
Gordonsville 1	D1	Unit 1 ST tripped due to a 87 function on the II-2 (Siemens) Relay during a switching transient. SC33 Event WO #67795696	0.98	0.56	6/16/2014 15:22	6/16/2014 16:21	62.0	60.9	$0
Gordonsville 1	U1	Unit 1 STG tripped due to a Generator Diff function on the II-2 (Siemens) Relay during a switching transient. SC33 Event WO #67795696	6.70	6.70	6/16/2014 16:21	6/16/2014 23:03	109.0	730.3	$1
Gordonsville 1	MO	Testing Unit 1 Current Transformers on Steam Turbine Generator	12.00	12.00	6/23/2014 7:00	6/23/2014 19:00	109.0	1,308.0	$1
Gordonsville 1	MO	ST Generator Rotor Rewind.	191.97	191.97	10/6/2014 0:01	10/13/2014 23:59	109.0	20,924.4	$149
Gordonsville 1	PO	STG Rotor rewind & stator re-wedge.	755.68	755.68	10/13/2014 23:59	11/14/2014 10:40	109.0	82,369.4	$475
Gordonsville 1	MO	Fuel Oil Readiness Testing	5.52	5.52	11/15/2014 7:00	11/15/2014 12:31	109.0	601.4	$4
Gordonsville 1	MO	Fuel Oil Readiness Testing	0.85	0.85	11/15/2014 13:17	11/15/2014 14:08	109.0	92.7	$1
Gordonsville 1	MO	Fuel Oil Readiness Testing	1.63	1.63	11/15/2014 17:06	11/15/2014 18:44	109.0	178.0	$1
Gordonsville 1	D1	Unit 1 CT output limited due to high vibrations in CT generator.	9.10	0.50	11/16/2014 20:54	11/17/2014 6:00	6.0	54.6	$0
Gordonsville 1	U1	Unit taken offline due to High Vibrations on CT Generator	32.43	32.43	11/17/2014 6:00	11/18/2014 14:26	109.0	3,535.2	$33
Gordonsville 1	U1	Steam Turbine 11-1 relay rolled 86T2 Lockout due to a loose transformer wire connection.	7.70	7.70	11/26/2014 2:32	11/26/2014 10:14	109.0	839.3	$5
Gordonsville 1	D4	Planned fuel system test.	0.85	0.18	12/5/2014 21:11	12/5/2014 22:02	23.0	19.6	$0
Gordonsville 1	D4	Planned fuel oil system test.	0.75	0.16	12/12/2014 22:17	12/12/2014 23:02	23.0	17.3	$0
Gordonsville 1	MO	LP Economizer tube leak repairs.	10.00	10.00	12/18/2014 7:00	12/18/2014 17:00	109.0	1,090.0	$1
Gordonsville 2	MO	Fuel Oil OPS Restoration.	52.37	52.37	1/24/2014 12:45	1/26/2014 17:07	109.0	5,708.0	$22
Gordonsville 2	MO	Fuel Oil OPS Restoration.	13.70	13.70	1/26/2014 19:31	1/27/2014 9:13	109.0	1,493.3	$0
Gordonsville 2	MO	Fuel Oil OPS Restoration.	5.18	5.18	1/27/2014 12:23	1/27/2014 17:34	109.0	564.9	$0
Gordonsville 2	MO	Fuel Oil OPS Restoration.	0.80	0.80	1/27/2014 17:39	1/27/2014 18:27	109.0	87.2	$0
Gordonsville 2	MO	T&D work in switch yard relay building.	11.27	11.27	3/24/2014 6:00	3/24/2014 17:16	109.0	1,228.1	$0
Gordonsville 2	PO	To support T&D Switch Yard upgrade, breakers and Islanding Protection.	667.92	667.92	4/11/2014 0:01	5/8/2014 19:56	109.0	72,803.0	$0
Gordonsville 2	NC	Perform annual PJM Black Start Demonstration Test	3.48	-	5/8/2014 11:25	5/8/2014 14:54	-	-	$0
Gordonsville 2	PO	To support T&D Switch Yard upgrade, breakers and Islanding Protection	13.65	13.65	5/8/2014 22:48	5/9/2014 12:27	109.0	1,487.9	$0
Gordonsville 2	MO	Maintenance Outage - Te repair HP Economizer drain line leak.	16.98	16.98	5/31/2014 0:01	5/31/2014 17:00	109.0	1,851.1	$6
Gordonsville 2	U1	Arc flash event in CT 52G breaker. SC33 Event #24 - WO# 67792652	68.28	68.28	6/11/2014 19:19	6/14/2014 15:36	109.0	7,442.8	$1
Gordonsville 2	U1	Unit 2 tripped off line with a 86T-2 Lockout, driven from a misconfigured 2STG V/HZ alarm. SC33 Event WO# 67794514	7.90	7.90	6/16/2014 8:58	6/16/2014 16:52	109.0	861.1	$1
Gordonsville 2	D1	U2 ST Tripped on high back pressure. SC33 Event. SAP WO# 67802915.	4.75	0.83	7/2/2014 15:19	7/2/2014 20:04	19.0	90.3	$0
Gordonsville 2	MO	Repair HP Superheater #2 Drain Leak	9.33	9.33	7/12/2014 8:00	7/12/2014 17:20	109.0	1,017.3	$6
Gordonsville 2	PO	Scheduled Combustion Inspection of Combustion Turbine.	350.32	350.32	9/26/2014 0:01	10/10/2014 14:20	109.0	38,184.6	$1,028
Gordonsville 2	MO	Fuel Oil Readiness Testing	8.27	8.27	11/16/2014 7:00	11/16/2014 15:16	109.0	901.1	$5
Gordonsville 2	MO	Fuel Oil Readiness Testing	1.40	1.40	11/16/2014 15:27	11/16/2014 16:51	109.0	152.6	$1

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2014 Power Generation Outage Report
(Fossil & Hydro)

Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2014 Dates Start	2014 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Gordonsville 2	MO	Fuel Oil Readiness Testing	2.82	2.82	11/16/2014 17:16	11/16/2014 20:05	109.0	307.1	$2
Gordonsville 2	MO	Fuel Oil readiness maintenance	38.37	38.37	11/24/2014 0:01	11/25/2014 14:23	109.0	4,182.0	$12
Gordonsville 2	MO	Fuel Oil Readiness maintenance	1.15	1.15	11/25/2014 15:46	11/25/2014 16:55	109.0	125.4	$8
Gordonsville 2	D4	Planned fuel oil system test.	0.92	0.14	12/5/2014 19:52	12/5/2014 20:47	16.0	14.7	$0
Gordonsville 2	D4	Planned fuel oil system test.	1.53	0.17	12/21/2014 10:02	12/21/2014 11:34	12.0	18.4	$0
Gordonsville 2	D4	Planned fuel oil system test.	1.17	0.12	12/28/2014 10:00	12/28/2014 11:10	11.0	12.8	$0
Gravel Neck CT1	SF	67730853 - TURNING GEAR & MOTOR	14.83	14.83	1/7/2014 6:00	1/7/2014 20:50	12.0	178.0	$9
Gravel Neck CT1	SF	67731409 - CONTROLS PROBLEM	201.43	201.43	1/8/2014 6:30	1/16/2014 15:56	12.0	2,417.2	$0
Gravel Neck CT1	MO	67755096 - BLACK START TEST	32.30	32.30	3/27/2014 7:52	3/28/2014 16:10	12.0	387.6	$0
Gravel Neck CT1	MO	67762838 - FUEL OIL TANK C" INTERNAL INSPECTION"	872.50	872.50	4/7/2014 7:00	5/13/2014 15:30	12.0	10,470.0	$42
Gravel Neck CT1	MO	67808284 - exhaust stack inspection	6.75	6.75	11/3/2014 8:00	11/3/2014 14:45	12.0	81.0	$2
Gravel Neck CT1	U1	67864383 - unit tripped on high engine exhaust temp due to faulty thermocouple.	2.97	2.97	12/12/2014 6:02	12/12/2014 9:00	12.0	35.6	$0
Gravel Neck CT2	SF	67730855 - FLAME SCANNERS	54.08	54.08	1/7/2014 6:00	1/9/2014 12:05	16.0	865.3	$0
Gravel Neck CT2	U1	67740117 - GENERATOR BREAKER WOULD NOT CLOSE	3.58	3.58	1/30/2014 8:00	1/30/2014 11:35	16.0	57.3	$0
Gravel Neck CT2	MO	67755097 - BLACK START TEST	32.30	32.30	3/27/2014 7:52	3/28/2014 16:10	16.0	516.8	$0
Gravel Neck CT2	MO	67762838 - FUEL OIL TANK C" INTERNAL INSPECTION"	872.50	872.50	4/7/2014 7:00	5/13/2014 15:30	16.0	13,960.0	$0
Gravel Neck CT2	MO	67808285 - exhaust stack inspection	6.33	6.33	11/4/2014 7:30	11/4/2014 13:50	16.0	101.3	$2
Gravel Neck CT3	U1	67732084 - WATER INJECTION BREAKER	4.88	4.88	1/8/2014 11:22	1/8/2014 16:15	86.8	423.8	$0
Gravel Neck CT3	U1	67746018 - AUXILIARY HYDRAULIC PUMP MOTOR FAILURE	73.50	73.50	2/11/2014 16:30	2/14/2014 18:00	86.8	6,379.8	$9
Gravel Neck CT3	MO	67770781 - TORQUE CONVERTER & HYDRAULIC PUMP LEAK REPAIRS	85.22	85.22	4/14/2014 7:00	4/17/2014 20:13	85.0	7,243.4	$2
Gravel Neck CT3	MO	67770781 - LUBE OIL SYSTEM MAINTENANCE	103.50	103.50	4/21/2014 7:00	4/25/2014 14:30	85.0	8,797.5	$0
Gravel Neck CT3	MO	67810940 - wet compression nozzle repair	36.98	36.98	8/5/2014 0:01	8/6/2014 13:00	85.0	3,143.6	$3
Gravel Neck CT3	MO	transmission system maintenance	8.50	8.50	10/13/2014 7:00	10/13/2014 15:30	85.0	722.5	$0
Gravel Neck CT3	PO	67847070 - bleed valve actuator repairs	200.40	200.40	10/27/2014 7:00	11/4/2014 14:24	85.0	17,034.0	$9
Gravel Neck CT3	MO	67851298 - support cyber security installation	11.00	11.00	11/24/2014 7:00	11/24/2014 18:00	85.0	935.0	$1
Gravel Neck CT4	SF	67736534 - SERVO INLET GUIDE VANE ISSUES	9.50	9.50	1/22/2014 6:00	1/22/2014 15:30	88.0	836.0	$0
Gravel Neck CT4	U1	67745610 - POTENTIAL TRANSFORMER	2.88	2.88	2/11/2014 5:21	2/11/2014 8:14	88.0	253.7	$0
Gravel Neck CT4	U1	67746019 - VOLTAGE REGULATOR MODE PROBLEM	0.03	0.03	2/12/2014 8:44	2/12/2014 8:46	88.0	2.9	$0
Gravel Neck CT4	MO	67745610 - POTENTIAL TRANSFORMER 2 TESTING	10.42	10.42	2/14/2014 7:00	2/14/2014 17:25	88.0	916.7	$0
Gravel Neck CT4	MO	67758059 - POTENTIAL TRANSFORMER TESTING	2.92	2.92	3/13/2014 8:00	3/13/2014 10:55	88.0	256.7	$0
Gravel Neck CT4	MO	67770824 - LUBE OIL SYSTEM MAINTENANCE	54.50	54.50	4/14/2014 7:00	4/16/2014 13:30	85.0	4,632.5	$0
Gravel Neck CT4	MO	67770824 - LUBE OIL SYSTEM MAINTENANCE	103.50	103.50	4/21/2014 7:00	4/25/2014 14:30	85.0	8,797.5	$0
Gravel Neck CT4	PO	67808781 - replace exhaust transition	169.25	169.25	10/13/2014 7:00	10/20/2014 8:15	85.0	14,386.3	$2
Gravel Neck CT4	MO	67851298 - support cyber security installation	11.00	11.00	11/24/2014 7:00	11/24/2014 18:00	85.0	935.0	$1
Gravel Neck CT5	U1	67736533 - WATER INJECTION SKID HEATER	2.27	2.27	1/22/2014 6:15	1/22/2014 8:31	85.0	192.7	$0
Gravel Neck CT5	SF	67740118 - FAILED STARTING MOTOR TRIP RELAY	15.50	15.50	1/29/2014 6:29	1/29/2014 21:59	85.0	1,317.5	$6
Gravel Neck CT5	U1	67745611 - WATER INJECTION SYSTEM	7.02	7.02	2/11/2014 5:29	2/11/2014 12:30	85.0	596.4	$5
Gravel Neck CT5	MO	67757733 - TRANSMISSION SYSTEM MAINTENANCE	80.45	80.45	3/10/2014 6:15	3/13/2014 14:42	85.0	6,838.3	$0
Gravel Neck CT5	MO	67777674 - Lube Oil System Maint/Compressor Wash	99.00	99.00	5/5/2014 7:00	5/9/2014 10:00	85.0	8,415.0	$0
Gravel Neck CT5	SF	67760083 - FAILED IGV SERVO	1.72	1.72	5/12/2014 12:54	5/12/2014 14:37	85.0	145.9	$2
Gravel Neck CT5	U1	67790585 - Water Injection Motor Breaker Trip	0.42	0.42	6/4/2014 13:01	6/4/2014 13:26	85.0	35.4	$1
Gravel Neck CT5	PO	67797263 - Replacement of exhaust transition	200.50	200.50	10/6/2014 7:00	10/14/2014 15:30	85.0	17,042.5	$5
Gravel Neck CT6	SF	67740119 - Loss of 2048 230KV transmission line	4.52	4.52	1/29/2014 6:29	1/29/2014 11:00	87.3	394.3	$0
Gravel Neck CT6	SF	67754518 - FAILURE TO IGNITE	8.00	8.00	3/3/2014 18:00	3/4/2014 2:00	87.8	698.4	$0
Gravel Neck CT6	U1	67754519 - LOSS OF FLAME TRIP	10.38	10.38	3/4/2014 6:22	3/4/2014 16:45	87.3	906.4	$0
Gravel Neck CT6	MO	67757733 - TRANSMISSION SYSTEM MAINTENANCE	80.45	80.45	3/10/2014 6:15	3/13/2014 14:42	87.3	7,023.3	$0
Gravel Neck CT6	MO	67777675 - Lube Oil System Maint/Compressor Wash	103.75	103.75	5/5/2014 7:00	5/9/2014 14:45	85.0	8,818.8	$0
Gravel Neck CT6	PO	67792648 - atomizing air precooler air leak repair	30.25	30.25	11/4/2014 7:30	11/5/2014 13:45	85.0	2,571.3	$2
Ladysmith CT1	U1	Unit tripped during liquid fuel tank transfer (loss of fuel)	1.43	1.43	1/7/2014 8:17	1/7/2014 9:43	151.1	216.5	$0
Ladysmith CT1	U1	Unit fired shutdown (H2O injection purge backflow)	2.68	2.68	1/24/2014 5:17	1/24/2014 7:58	151.1	405.4	$0
Ladysmith CT1	MO	Lift oil fitting O-Ring failure.	4.08	4.08	2/26/2014 9:25	2/26/2014 13:30	151.1	616.9	$0
Ladysmith CT1	PO	Boroscope Inspection	206.98	206.98	4/5/2014 0:01	4/13/2014 15:00	151.1	31,275.1	$3
Ladysmith CT1	PO	Borescope Inspection	153.35	153.35	11/8/2014 0:00	11/14/2014 9:21	151.0	23,155.9	$19
Ladysmith CT1	PO	Borescope Inspection	0.32	0.32	11/14/2014 10:16	11/14/2014 10:35	151.0	47.9	$0
Ladysmith CT1	PO	Switch Yard Work	21.20	21.20	11/22/2014 0:00	11/22/2014 21:12	151.0	3,201.2	$0
Ladysmith CT2	PO	Boroscope Inspection	182.58	182.58	4/5/2014 0:01	4/12/2014 14:36	150.0	27,387.5	$2
Ladysmith CT2	SF	Failure to synch	4.58	4.58	9/21/2014 14:29	9/21/2014 19:04	150.0	687.5	$0
Ladysmith CT2	U1	Mark VI Control system problem	4.80	4.80	9/29/2014 17:35	9/29/2014 22:23	150.0	720.0	$0
Ladysmith CT2	PO	Boroscope Inspection	184.45	184.45	11/5/2014 0:00	11/12/2014 16:27	150.0	27,682.5	$19

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Ladysmith CT2	PO	Borescope Inspection	19.83	19.83	11/12/2014 17:24	11/13/2014 13:14	150.0	2,975.0	$0
Ladysmith CT2	PO	Switch Yard Work	17.48	17.48	11/22/2014 0:00	11/22/2014 17:29	150.0	2,622.5	$0
Ladysmith CT3	U1	Unit run back due to high atomizing air temp	0.55	0.55	1/3/2014 14:17	1/3/2014 14:50	161.0	88.6	$0
Ladysmith CT3	U1	Lack of fuel	20.50	20.50	1/4/2014 1:00	1/4/2014 21:30	161.0	3,300.5	$0
Ladysmith CT3	U1	Lack of fuel	115.33	115.33	1/6/2014 9:25	1/11/2014 4:45	161.0	18,568.6	$0
Ladysmith CT3	U1	Unit run back due to high atomizing air temperature.	259.92	259.92	1/22/2014 18:33	2/2/2014 14:28	161.0	41,846.6	$0
Ladysmith CT3	PO	Combustion Inspection	225.35	225.35	4/27/2014 0:01	5/6/2014 9:22	159.9	36,033.5	$4
Ladysmith CT3	PO	Combustion Inspection	0.83	0.83	5/6/2014 11:35	5/6/2014 12:25	159.9	133.2	$0
Ladysmith CT3	PO	Combustion Inspection	3.28	3.28	5/6/2014 15:37	5/6/2014 18:54	159.9	525.0	$0
Ladysmith CT3	MO	Gas Turbine Control System -UPGRADES	11.78	11.78	5/21/2014 0:01	5/21/2014 11:48	159.9	1,884.1	$0
Ladysmith CT3	MO	Gas turbine control system -upgrades	2.08	2.08	5/21/2014 11:55	5/21/2014 14:00	159.9	333.1	$0
Ladysmith CT3	MO	Gas Turbine Control System-Upgrades	0.85	0.85	5/21/2014 15:04	5/21/2014 15:55	159.9	135.9	$17
Ladysmith CT3	D1	Failed summer capacity test	4,392.98	31.18	6/1/2014 0:00	11/30/2014 23:59	1.2	5,271.6	$0
Ladysmith CT3	U1	89ND switch cycling	5.45	5.45	6/30/2014 11:44	6/30/2014 17:11	159.9	871.5	$0
Ladysmith CT3	PO	Boroscope Inspection	229.80	229.80	10/29/2014 0:01	11/7/2014 12:49	159.9	36,745.0	$19
Ladysmith CT3	PO	Borescope Inspection	2.92	2.92	11/7/2014 13:45	11/7/2014 16:40	159.9	466.4	$0
Ladysmith CT3	D1	Failed summer capacity test	744.00	5.58	12/1/2014 0:00	1/14/2015 23:59	1.2	892.8	$0
Ladysmith CT4	PO	Combustion Inspection	153.45	153.45	5/5/2014 0:01	5/11/2014 9:28	160.0	24,552.0	$0
Ladysmith CT4	PO	Combustion Inspection	1.17	1.17	5/11/2014 11:56	5/11/2014 13:06	160.0	186.7	$0
Ladysmith CT4	PO	Combustion Inspection	18.78	18.78	5/11/2014 16:51	5/12/2014 11:38	160.0	3,005.3	$8
Ladysmith CT4	MO	Bleed heat valve repair	17.20	17.20	5/20/2014 0:01	5/20/2014 17:13	160.0	2,752.0	$8
Ladysmith CT4	D1	Failed summer capacity test	4,392.98	30.41	6/1/2014 0:00	11/30/2014 23:59	1.2	5,271.6	$0
Ladysmith CT4	PO	Boroscope Inspection	204.37	204.37	10/29/2014 0:01	11/6/2014 11:23	160.0	32,698.7	$38
Ladysmith CT4	PO	Borescope Inspection	0.67	0.67	11/6/2014 12:38	11/6/2014 13:18	160.0	106.7	$0
Ladysmith CT4	PO	Borescope Inspection	26.15	26.15	11/6/2014 13:51	11/7/2014 16:00	160.0	4,184.0	$0
Ladysmith CT4	MO	Water Injection Header Repair	105.82	105.82	11/12/2014 0:00	11/16/2014 9:49	160.0	16,930.7	$38
Ladysmith CT4	MO	Water Injection Header Repair	0.90	0.90	11/16/2014 10:43	11/16/2014 11:37	160.0	144.0	$0
Ladysmith CT4	MO	Water Injection Header Repair	0.68	0.68	11/16/2014 12:04	11/16/2014 12:45	160.0	109.3	$0
Ladysmith CT4	D1	Failed summer capacity test	744.00	5.58	12/1/2014 0:00	1/15/2015 23:59	1.2	892.8	$0
Ladysmith CT5	SF	Unit unavailable due to failed 89ND (Neutral Disconnect Switch)	9.30	9.30	1/29/2014 6:03	1/29/2014 15:21	160.0	1,488.0	$0
Ladysmith CT5	SF	Unit unavailable due to 89ND failed to Open	11.42	11.42	1/30/2014 5:43	1/30/2014 17:08	160.0	1,826.7	$0
Ladysmith CT5	PO	Boroscope Inspection	207.23	207.23	4/28/2014 0:01	5/6/2014 15:15	160.0	33,157.3	$3
Ladysmith CT5	D1	Failed summer capacity test	4,392.98	59.24	6/1/2014 0:00	11/30/2014 23:59	2.4	10,543.2	$0
Ladysmith CT5	PO	Combustion Inspection	420.22	420.22	10/18/2014 0:01	11/4/2014 11:14	160.0	67,234.7	$19
Ladysmith CT5	PO	Combustion Inspection	20.15	20.15	11/4/2014 14:00	11/5/2014 10:09	160.0	3,224.0	$0
Ladysmith CT5	PO	Combustion Inspection- Testing on gas	3.48	3.48	11/5/2014 13:46	11/5/2014 17:15	160.0	557.3	$0
Ladysmith CT5	D1	Failed summer capacity test	744.00	11.16	12/1/2014 0:00	1/16/2015 23:59	2.4	1,785.6	$0
Low Moor CT1	MO	67733223 - CAPACITOR BANK REPLACEMENT IN SWITCHYARD	3.00	3.00	1/13/2014 9:30	1/13/2014 12:30	13.0	39.0	$0
Low Moor CT1	MO	67733223 - CAPACITOR BANK REPLACEMENT IN SWITCHYARD	4.08	4.08	2/4/2014 8:05	2/4/2014 12:10	12.0	49.0	$0
Low Moor CT1	MO	67733223 - CAPACITOR BANK REPLACEMENT IN SWITCHYARD	4.53	4.53	2/11/2014 9:40	2/11/2014 14:12	12.0	54.4	$0
Low Moor CT1	MO	67751123 - BUSHING REPLACEMENT ON HIGH SIDE MAIN TRANSFORMER	31.47	31.47	2/19/2014 9:57	2/20/2014 17:25	12.0	377.6	$0
Low Moor CT1	MO	67733223 - SUBSTATION OUTAGE FOR CAPACITOR BANK MAINTENANCE	2.60	2.60	3/20/2014 7:50	3/20/2014 10:26	12.0	31.2	$0
Low Moor CT1	MO	67755099 - BLACK START TESTING	1.05	1.05	3/24/2014 10:34	3/24/2014 11:37	12.0	12.6	$0
Low Moor CT1	PO	67830987 - Oil Tank Inspection	1,253.93	1,253.93	9/15/2014 7:00	11/6/2014 11:56	12.0	15,047.2	$16
Low Moor CT2	U1	67731944 - FUEL FORWARDING SOLENOID VALVE	21.10	21.10	1/7/2014 17:05	1/8/2014 14:11	12.0	253.2	$0
Low Moor CT2	MO	67733223 - CAPACITOR BANK REPLACEMENT IN SWITCHYARD	3.00	3.00	1/13/2014 9:30	1/13/2014 12:30	12.0	36.0	$0
Low Moor CT2	MO	67733223 - CAPACITOR BANK REPLACEMENT IN SWITCHYARD	4.08	4.08	2/4/2014 8:05	2/4/2014 12:10	12.0	49.0	$0
Low Moor CT2	MO	67733223 - CAPACITOR BANK REPLACEMENT IN SWITCHYARD	4.53	4.53	2/11/2014 9:40	2/11/2014 14:12	12.0	54.4	$0
Low Moor CT2	MO	67751123 - BUSHING REPLACEMENT ON HIGH SIDE MAIN TRANSFORMER	31.47	31.47	2/19/2014 9:57	2/20/2014 17:25	12.0	377.6	$0
Low Moor CT2	MO	67733223 - SUBSTATION OUTAGE FOR CAPACITOR BANK MAINTENANCE	2.60	2.60	3/20/2014 7:50	3/20/2014 10:26	12.0	31.2	$0
Low Moor CT2	MO	67755099 - BLACK START TESTING	1.05	1.05	3/24/2014 10:34	3/24/2014 11:37	12.0	12.6	$0
Low Moor CT2	U1	67790844 - Starting Motor Clutch Repair	140.97	140.97	6/4/2014 14:00	6/10/2014 10:58	12.0	1,691.6	$15
Low Moor CT2	MO	67751182 - starting clutch replacement	34.50	34.50	8/12/2014 7:00	8/13/2014 17:30	12.0	414.0	$21
Low Moor CT2	PO	67830987 - Oil Tank Inspection	1,253.93	1,253.93	9/15/2014 7:00	11/6/2014 11:56	12.0	15,047.2	$16
Low Moor CT3	MO	67733223 - CAPACITOR BANK REPLACEMENT IN SWITCHYARD	3.00	3.00	1/13/2014 9:30	1/13/2014 12:30	13.0	39.0	$0
Low Moor CT3	MO	67733223 - CAPACITOR BANK REPLACEMENT IN SWITCHYARD	4.08	4.08	2/4/2014 8:05	2/4/2014 12:10	12.0	49.0	$0
Low Moor CT3	MO	67733223 - CAPACITOR BANK REPLACEMENT IN SWITCHYARD	4.53	4.53	2/11/2014 9:40	2/11/2014 14:12	12.0	54.4	$0
Low Moor CT3	MO	67733223 - SUBSTATION OUTAGE FOR CAPACITOR BANK MAINTENANCE	2.60	2.60	3/20/2014 7:50	3/20/2014 10:26	12.0	31.2	$0
Low Moor CT3	MO	67755099 - BLACK START TESTING	1.05	1.05	3/24/2014 10:34	3/24/2014 11:37	12.0	12.6	$0

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Low Moor CT3	PO	67830987 - Oil Tank Inspection	1,253.93	1,253.93	9/15/2014 7:00	11/6/2014 11:56	12.0	15,047.2	$16
Low Moor CT3	U1	67854064 - Bus protection relay	6.85	6.85	11/6/2014 13:54	11/6/2014 20:45	12.0	82.2	$0
Low Moor CT4	MO	67733223 - CAPACITOR BANK REPLACEMENT IN SWITCHYARD	3.00	3.00	1/13/2014 9:30	1/13/2014 12:30	13.0	39.0	$0
Low Moor CT4	MO	67733223 - CAPACITOR BANK REPLACEMENT IN SWITCHYARD	4.08	4.08	2/4/2014 8:05	2/4/2014 12:10	12.0	49.0	$0
Low Moor CT4	MO	67733223 - CAPACITOR BANK REPLACEMENT IN SWITCHYARD	4.53	4.53	2/11/2014 9:40	2/11/2014 14:12	12.0	54.4	$0
Low Moor CT4	MO	67733223 - SUBSTATION OUTAGE FOR CAPACITOR BANK MAINTENANCE	2.60	2.60	3/20/2014 7:50	3/20/2014 10:26	14.4	37.4	$0
Low Moor CT4	MO	67755099 - BLACK START TESTING	1.05	1.05	3/24/2014 10:34	3/24/2014 11:37	14.4	15.1	$0
Low Moor CT4	PO	67830987 - Oil Tank Inspection	1,253.93	1,253.93	9/15/2014 7:00	11/6/2014 11:56	12.0	15,047.2	$16
Low Moor CT4	U1	67854064 - bus protection relay	6.85	6.85	11/6/2014 13:54	11/6/2014 20:45	12.0	82.2	$0
Mecklenburg 1	U1	U1 T/G controls issues. The Load Limiter" was observed with a value of 2%. Its uncertain how this value ended up in this control block."	8.72	8.72	3/17/2014 4:52	3/17/2014 13:35	69.0	601.5	$0
Mecklenburg 1	D1	Failed Capacity Test	4,392.98	63.62	6/1/2014 0:00	11/30/2014 23:59	1.1	4,832.3	$0
Mecklenburg 1	D1	The Ash System piping, common to both blowers, collapsed and made ash removal impossible.	3.08	2.32	8/25/2014 16:55	8/25/2014 20:00	51.9	160.0	$0
Mecklenburg 1	U1	Operator tripped U1 manually inadvertently instead of U2.	2.20	2.20	9/10/2014 5:24	9/10/2014 7:36	69.0	151.8	$0
Mecklenburg 1	MO	Outage: Generator inspection and winding repair; Opacity monitor install	383.40	383.40	10/4/2014 0:35	10/19/2014 23:59	69.0	26,454.6	$265
Mecklenburg 1	MO	MO - 59e Relay calibration / PM (NERC Compliance)	16.58	16.58	11/30/2014 0:01	11/30/2014 16:36	69.0	1,144.2	$0
Mecklenburg 2	U1	A loss of power/communication to the Burner Management System.	6.40	6.40	4/18/2014 10:15	4/18/2014 16:39	69.0	441.6	$0
Mecklenburg 2	PO	planned Outage	500.70	500.70	5/10/2014 0:49	5/30/2014 21:31	69.0	34,548.3	$503
Mecklenburg 2	D1	Failed Capacity Test	4,392.98	67.01	6/1/2014 0:00	11/30/2014 23:59	1.1	4,832.3	$0
Mecklenburg 2	U1	U2 ID Fan Trip - no definitive explanation as of yet.	4.92	4.92	7/21/2014 9:11	7/21/2014 14:06	69.0	339.3	$0
Mecklenburg 2	D1	Ash System piping failure.	3.08	2.32	8/25/2014 16:55	8/25/2014 20:00	51.9	160.0	$0
Mecklenburg 2	MO	Planned Outage - New opacity and CO monitor installation.	163.38	163.38	10/4/2014 0:00	10/10/2014 19:23	69.0	11,273.4	$84
Mecklenburg 2	U1	U2 #1 vibration probe cable malfunction.	2.60	2.60	11/6/2014 2:33	11/6/2014 5:09	69.0	179.4	$0
Mecklenburg 2	MO	MO - 59e Relay calibration / PM - (NERC Compliance)	18.45	18.45	11/30/2014 0:01	11/30/2014 18:28	69.0	1,273.1	$0
Mt. Storm 1	MO	67729624 - Unit Maintenance Outage taken due to tube leak waterwall.	72.02	72.02	1/4/2014 0:01	1/7/2014 0:02	554.0	39,897.4	$2
Mt. Storm 1	U1	67732509 - Unit taken offline due to a leak in superheat platens. Tube leak was caused by thermal fatigue in a clip weld.	37.97	37.97	1/12/2014 17:15	1/14/2014 7:13	554.0	21,033.7	$29
Mt. Storm 1	D1	67742175 - Unit derated due to 1D Coal Feeder being plugged.	2.50	0.29	2/3/2014 22:00	2/4/2014 0:30	64.0	160.0	$0
Mt. Storm 1	D4	67717177 - Unit derated due to Turbine Valve Freedom Testing. No issues or concerns noted in CRO logs.	0.55	0.13	2/8/2014 0:06	2/8/2014 0:39	129.0	71.0	$0
Mt. Storm 1	D1	67747283 - Unit derated due to 1D mill feeder pluggage.	1.63	0.16	2/14/2014 23:14	2/15/2014 0:52	54.0	88.2	$0
Mt. Storm 1	D1	Unit derated due to 1E mill feeder pluggage.	9.05	0.88	2/16/2014 10:19	2/16/2014 19:22	54.0	488.7	$0
Mt. Storm 1	D1	Unit derated due to 1D fedder plugged.	1.70	0.17	2/23/2014 9:31	2/23/2014 11:13	54.0	91.8	$0
Mt. Storm 1	D1	67750198 Unit derated due to fire in pulverizer primary air duct.	8.72	1.10	2/23/2014 12:18	2/23/2014 21:01	70.0	610.2	$1
Mt. Storm 1	D4	67752554 - Unit derated due to Turbine Valve Freedom Testing. No issues or concerns noted in CRO Logs.	0.88	0.21	3/1/2014 0:06	3/1/2014 0:59	129.0	113.9	$0
Mt. Storm 1	D1	67757129 - Unit derated due to 1C pulverizer coal leak.	0.78	0.08	3/11/2014 13:08	3/11/2014 13:55	54.0	42.3	$0
Mt. Storm 1	D4	67757565 - Unit derated to perform Turbine Valve Freedom Testing. CRO reported RH stop valves did not indicate closed.	1.00	0.23	3/14/2014 23:40	3/15/2014 0:40	129.0	129.0	$0
Mt. Storm 1	D4	67757565 - Unit derated due to Turbine Valve Freedom Test. No issues or concerns noted in CRO logs.	1.13	0.26	3/29/2014 0:01	3/29/2014 1:09	129.0	146.2	$0
Mt. Storm 1	D1	Unit derated due to SCR plugging. A ID fan maxed out in alarm Hi Amps.	16.72	0.18	4/7/2014 18:52	4/8/2014 11:35	6.0	100.3	$0
Mt. Storm 1	PO	PO for final superheat pendant tube partial replacement, SCR & Scrubber inspection and cleaning and external boiler washdown.	348.98	348.98	4/11/2014 23:46	4/26/2014 12:45	554.0	193,336.6	$1,587
Mt. Storm 1	D1	Unit derated due to D coal mill exhauster leak.	0.45	0.03	4/28/2014 21:22	4/28/2014 21:49	34.0	15.3	$0
Mt. Storm 1	D1	Unit derated due to leak on D coal mill exhauster.	1.07	0.07	4/28/2014 21:58	4/28/2014 23:02	34.0	36.3	$0
Mt. Storm 1	D4	67752554 - Unit derated due to Turbine Valve Freedom Testing.	1.00	0.23	5/10/2014 0:00	5/10/2014 1:00	129.0	129.0	$0
Mt. Storm 1	D4	67783730 - Unit derated due to Turbine Valve Freedom Testing. No issues or concerns noted in CRO logs.	0.23	0.05	5/24/2014 0:38	5/24/2014 0:52	129.0	30.1	$0
Mt. Storm 1	D1	Unit derated due to Full Load Capacity Testing results. Unit achieved 551 Nmw during summer 2014 Real Power Testing.	4,392.98	22.56	6/1/2014 0:00	11/30/2014 23:59	3.0	13,178.9	$0
Mt. Storm 1	D4	67789827 - Unit derated due to Turbine Valve Freedom Testing. No issues or concerns noted in CRO Log.	0.72	0.16	6/6/2014 23:47	6/7/2014 0:30	126.0	90.3	$0
Mt. Storm 1	D4	Unit 1&2 Common Stack Low Load RATA Testing	4.67	2.24	6/10/2014 1:57	6/10/2014 6:37	266.0	1,241.4	$0
Mt. Storm 1	D4	Performed Unit 1&2 Common Stack Mid Load RATA Testing	5.20	1.32	6/10/2014 6:37	6/10/2014 11:49	141.0	733.2	$0
Mt. Storm 1	D4	67789537 - Unit derated to perform turbine valve freedom testing. No issues or concerns noted in CRO Log.	0.85	0.19	6/28/2014 0:05	6/28/2014 0:56	126.0	107.1	$0
Mt. Storm 1	D1	67809788 - Unit derated due to E feeder plugged.	1.93	0.21	7/20/2014 12:56	7/20/2014 14:52	61.0	117.9	$0
Mt. Storm 1	D4	67810630 - Unit derated due to Turbine Valve Freedom Testing. No issues or concerns noted in CRO logs.	0.22	0.05	7/25/2014 23:46	7/25/2014 23:59	126.0	27.3	$0
Mt. Storm 1	D4	67816041 - Unit derated due to turbine valve freedom testing. No issues or concerns noted in CRO logs.	0.78	0.18	8/8/2014 23:02	8/8/2014 23:49	126.0	98.7	$0
Mt. Storm 1	D4	67820562 - Unit derated due to Turbine Valve Freedom Testing. No issues or concerns noted in CRO Logs.	0.42	0.10	8/23/2014 0:12	8/23/2014 0:37	126.0	52.5	$0
Mt. Storm 1	D4	67826715 -Unit derated due to turbine valve freedom testing. No issues or concerns noted in CRO logs.	0.87	0.20	9/6/2014 0:02	9/6/2014 0:54	126.0	109.2	$0
Mt. Storm 1	D1	Unit derated due to boiler feed pump saturation and steam drum level loss.	9.67	0.11	9/8/2014 20:05	9/9/2014 5:45	6.0	58.0	$0
Mt. Storm 1	D1	Unit derated due to excessive vibration in 1B air preheater AC coupling.	3.68	2.00	9/17/2014 7:09	9/17/2014 10:50	301.0	1,108.6	$0
Mt. Storm 1	D4	67832749 - Unit derated due to turbine valve freedom testing. No issues or concerns noted in CRO logs.	0.12	0.03	9/19/2014 21:04	9/19/2014 21:11	126.0	14.7	$0
Mt. Storm 1	D4	67838607 - Unit derated due to turbine valve freedom testing. No issues or concerns noted in CRO Logs.	0.35	0.08	10/4/2014 0:03	10/4/2014 0:24	126.0	44.1	$0
Mt. Storm 1	D1	67841253 - Unit derated due to 1st heater being bypassed due to FW heater vent line leak.	5.52	0.91	10/6/2014 8:39	10/6/2014 14:10	91.0	502.0	$0
Mt. Storm 1	U1	67841253 - Unit derated due to 1st heater being bypassed due to FW heater vent line leak.	27.72	27.72	10/6/2014 14:10	10/7/2014 17:53	554.0	15,365.2	$52

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PO = Planned Outage	PE = Extension of Planned Outage
SF = Start Failure	D# = Derates
PD = Planned Derating	DM = Maintenance Derate Extension

2014 Power Generation Outage Report
(Fossil & Hydro)

Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2014 Dates Start	2014 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Mt. Storm 1	MO	67840959 - Unit Maintenance Outage taken to clean SCR and vacuum preheater.	78.63	78.63	10/8/2014 0:01	10/11/2014 6:39	554.0	43,562.7	$0
Mt. Storm 1	D1	Unit derated due to B Boiler Circ Pump tripped.	377.70	17.20	10/15/2014 22:42	10/31/2014 16:24	31.0	11,708.7	$0
Mt. Storm 1	D4	67838607 - Unit derated due to Turbine Valve Freedom Testing. No issues or concerns noted in CRO Logs.	1.03	0.18	10/25/2014 0:10	10/25/2014 1:12	95.0	98.1	$0
Mt. Storm 1	D1	Unit derated due to coal leak in D mill piping. Leak repaired and unit returned to service.	0.22	0.02	10/25/2014 7:27	10/25/2014 7:40	60.0	13.0	$0
Mt. Storm 1	U1	Unit auto tripped due to low air flow. Fans were set at 100% but air flow was running 82% prior to trip. An inspection revealed the linkage on B-FD Fan Inlet Vane Beck Drive had broke off thus allowing inlet vanes to be pulled closed and constricting air flow to the boiler	17.08	17.08	10/28/2014 16:05	10/29/2014 9:10	554.0	9,464.0	$0
Mt. Storm 1	MO	A Maintenance Outage was taken to replace Unit #1 B Boiler Circulating Water Pump. This pump had failed and limited the unit to are limited to 3.4 million pounds per hour feed water flow at 2450 throttle pressure.	53.23	53.23	10/29/2014 11:10	10/31/2014 16:24	554.0	29,491.1	$7
Mt. Storm 1	D1	Unit derated due to A coal mill feeder VFD failed.	6.10	0.23	10/31/2014 16:24	10/31/2014 22:30	21.0	128.1	$0
Mt. Storm 1	D1	Unit derated due to D coal feeder VFD failure.	5.50	0.21	11/3/2014 4:45	11/3/2014 10:15	21.0	115.5	$0
Mt. Storm 1	D1	Unit derated due to a coal leak in D mill coal piping.	2.38	0.09	11/3/2014 12:29	11/3/2014 14:52	21.0	50.0	$0
Mt. Storm 1	D1	Unit derated due to F mill #2 roll cracked.	17.30	1.28	11/9/2014 17:56	11/10/2014 11:14	41.0	709.3	$0
Mt. Storm 1	D1	Unit derated due to F mill #2 roll cracked.	51.97	1.97	11/10/2014 11:14	11/12/2014 15:12	21.0	1,091.3	$0
Mt. Storm 1	D4	67854127 - Unit derated due to turbine valve freedom testing. No issues or concerns noted in CRO Logs.	1.08	0.30	11/22/2014 0:00	11/22/2014 1:05	151.0	163.5	$0
Mt. Storm 1	D1	67858572 -Inspect D" Coal mill due to hot spots in the primary air duct"	4.00	0.20	11/25/2014 7:23	11/25/2014 11:23	27.0	108.0	$0
Mt. Storm 1	U1	Unit brought offline to repair D4 coal pipe. Pipe had failed due to internal fire damage.	51.15	51.15	11/26/2014 12:22	11/28/2014 15:31	554.0	28,337.1	$23
Mt. Storm 1	D4	Unit derated due to turbine valve freedom testing. No issues or concerns noted in CRO Logs.	0.42	0.10	12/12/2014 23:57	12/13/2014 0:22	129.0	53.8	$0
Mt. Storm 1	D1	Unit derated to repair coal leak on B mill coal piping.	0.98	0.09	12/17/2014 8:17	12/17/2014 9:16	50.0	49.2	$0
Mt. Storm 1	D1	Unit derated to repair coal leak on C mill coal piping.	0.92	0.08	12/21/2014 19:40	12/21/2014 20:35	50.0	45.9	$0
Mt. Storm 1	D4	67865256 - B" air preheater removed from service to replace motor to gear box coupling due to high vibration."	3.87	2.12	12/23/2014 9:12	12/23/2014 13:04	304.0	1,175.6	$1
Mt. Storm 1	U1	67869734 - Unit #1 was brought offline due to a leak in the Horizontal Superheat.	36.75	36.75	12/30/2014 11:15	1/2/2015 0:54	554.0	20,359.5	$10
Mt. Storm 2	U1	67731927 - Unit taken offline due to a tube leak in the superheat platens.	52.42	52.42	1/9/2014 18:33	1/11/2014 22:58	555.0	29,091.4	$35
Mt. Storm 2	MO	67739277 - MO taken to repair radiant reheater after reserve shutdown	32.98	32.98	1/31/2014 0:01	2/1/2014 9:00	555.0	18,305.6	$15
Mt. Storm 2	D1	Unit derated due to ID fan running in saturation.	0.73	0.01	2/5/2014 9:28	2/5/2014 10:12	5.0	3.7	$0
Mt. Storm 2	D1	Unit derated due to issues on HP Gen Stator gas temps.	0.35	0.02	2/5/2014 13:52	2/5/2014 14:13	35.0	12.3	$0
Mt. Storm 2	D1	Unit derated due to 2D coal feeder	0.08	0.01	2/5/2014 22:10	2/5/2014 22:15	35.0	2.9	$0
Mt. Storm 2	D1	Unit derated due to fire in 2A mill primary air duct.	9.20	1.74	2/5/2014 22:44	2/6/2014 7:56	105.0	966.0	$0
Mt. Storm 2	D1	Unit derated due to 2A mill loading, 2B&2D mills out due to feeder problems.	11.42	4.22	2/6/2014 7:56	2/6/2014 19:21	205.0	2,340.5	$0
Mt. Storm 2	D1	Unit derated due to 2F mill feeder plugging.	0.63	0.04	2/6/2014 22:37	2/6/2014 23:15	35.0	22.2	$0
Mt. Storm 2	D1	Unit derated due to 2B mill feeder plugging.	1.55	0.10	2/7/2014 2:02	2/7/2014 3:35	35.0	54.3	$0
Mt. Storm 2	D1	Unit derated due to 2B mill feeder plugging.	0.78	0.05	2/7/2014 6:49	2/7/2014 7:36	35.0	27.4	$0
Mt. Storm 2	D1	Unit derated due to 2E feeder pluggage.	0.22	0.02	2/8/2014 7:01	2/8/2014 7:14	55.0	11.9	$0
Mt. Storm 2	D1	Unit derated due to coal leak in C mill piping.	0.82	0.04	2/12/2014 11:38	2/12/2014 12:25	30.0	24.5	$0
Mt. Storm 2	D1	Unit derated due to A coal mill being taken for internal inspection and repairs.	11.73	0.63	2/14/2014 4:02	2/14/2014 15:46	30.0	352.0	$0
Mt. Storm 2	D4	67717178 - Unit derated due to turbine valve freedom testing. No issues or concerns noted on CRO logs.	0.53	0.15	2/15/2014 2:01	2/15/2014 2:33	155.0	82.6	$0
Mt. Storm 2	D1	Unit derated due to 2D coal feeder pluggage.	2.32	0.23	2/16/2014 4:20	2/16/2014 6:39	55.0	127.4	$0
Mt. Storm 2	D1	Unit derated due to pluggage on 2F feeder.	0.23	0.02	2/16/2014 7:20	2/16/2014 7:34	55.0	12.8	$0
Mt. Storm 2	D1	Unit derated to 2E Feeder Pluggage.	0.32	0.03	2/16/2014 7:34	2/16/2014 7:53	55.0	17.4	$0
Mt. Storm 2	D1	67747444 - Unit derated due to 2D feeder pluggage.	3.90	0.39	2/16/2014 9:24	2/16/2014 13:18	55.0	214.5	$0
Mt. Storm 2	D1	67746991 - Unit derated to A feeder pluggage and fire in primary duct adjacent to 2A coal mill.	25.58	1.38	2/16/2014 13:18	2/17/2014 14:53	30.0	767.5	$0
Mt. Storm 2	D1	Unit derated due 2F feeder pluggage with 2A mill out.	0.08	0.01	2/16/2014 14:36	2/16/2014 14:41	65.0	5.4	$0
Mt. Storm 2	D1	Unit derated due to condenser back pressure. A condenser tube leak is suspected.	35.95	0.45	2/25/2014 6:41	2/26/2014 18:38	7.0	251.7	$0
Mt. Storm 2	U1	67751708 - Unit taken off line due to large clinker in ash pit.	71.30	71.30	2/26/2014 18:38	3/1/2014 17:56	555.0	39,571.5	$61
Mt. Storm 2	PO	PO -Boiler ash pit replacement, SH division panel, radiant RH replacement FGD Internals	1,957.25	1,957.25	3/1/2014 17:56	5/22/2014 8:11	555.0	1,086,273.8	$9,525
Mt. Storm 2	U1	Unit tripped automatically while on line tuning after control system upgrade.	5.67	5.67	5/22/2014 9:54	5/22/2014 15:34	555.0	3,145.2	$0
Mt. Storm 2	D1	Unable to maintain to throttle pressure with C mill in.	116.05	11.50	5/24/2014 10:23	5/29/2014 6:26	55.0	6,382.8	$0
Mt. Storm 2	D4	Unit derated due to performing a DCS download.	1.92	0.88	5/29/2014 6:26	5/29/2014 8:21	255.0	488.8	$0
Mt. Storm 2	D1	Unit derated due to Full Load Capacity Testing results. Unit achieved 553.4 Nmw during summer 2014 Real Power Testing.	4,380.98	12.23	6/1/2014 0:00	11/30/2014 11:59	1.6	7,009.6	$0
Mt. Storm 2	D4	Performed Unit 1&2 Common Stack Low Load RATA Testing.	4.48	2.17	6/10/2014 2:07	6/10/2014 6:36	268.4	1,203.2	$0
Mt. Storm 2	D4	Performed Unit 1&2 Common Stack Mid Load RATA Testing.	5.17	1.34	6/10/2014 6:36	6/10/2014 11:46	143.4	740.9	$0
Mt. Storm 2	D1	Unit derated due to recycle pumps tripping.	0.35	0.17	6/23/2014 3:37	6/23/2014 3:58	268.4	93.9	$0
Mt. Storm 2	D1	While raising load throttle pressure went to high limit. Once system leveled out load was increased to full load.	0.32	-	6/27/2014 7:24	6/27/2014 7:43	4.4	1.4	$0
Mt. Storm 2	D4	67789538 - Unit derated to perform turbine valve freedom testing. No issues or concerns noted in CRO Log.	0.70	0.16	6/28/2014 0:28	6/28/2014 1:10	128.4	89.9	$0
Mt. Storm 2	D4	67805400 - Unit derated due to Turbine Valve Freedom Testing. No issues or concerns noted in CRO Logs.	1.05	0.29	7/12/2014 0:28	7/12/2014 1:31	153.4	161.1	$0
Mt. Storm 2	D4	67816042 - Unit derated due to turbine valve freedom testing. No issues or concerns noted in CRO logs.	0.85	0.24	8/9/2014 0:09	8/9/2014 1:00	153.4	130.4	$0
Mt. Storm 2	D4	67820563 - Unit derated due to Turbine Valve Freedom Testing. No issues or concerns noted in CRO Logs.	0.45	0.12	8/23/2014 0:20	8/23/2014 0:47	153.4	69.0	$0
Mt. Storm 2	D4	67826716 - Unit derated due to turbine valve freedom testing.	1.12	0.31	9/6/2014 1:56	9/6/2014 3:03	153.4	171.3	$0
Mt. Storm 2	D1	Unit derated due to A cooling tower fan tripping.	19.68	0.12	9/8/2014 19:40	9/9/2014 15:21	3.4	1.6	$0

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Mt. Storm 2	D4	67832750 - Unit derated due to turbine valve freedom testing. No issues or concerns noted in CRO logs.	0.12	0.03	9/19/2014 21:20	9/19/2014 21:27	153.4	17.9	$0
Mt. Storm 2	D4	67793754 - Unit derated due to oil leak in 2D coal mill motor.	55.40	2.84	9/24/2014 3:00	9/26/2014 10:24	28.4	1,573.4	$6
Mt. Storm 2	D4	67838607 - Unit derated due to turbine valve freedom testing. No issues or concerns noted in CRO Logs.	0.42	0.12	10/4/2014 0:44	10/4/2014 1:09	153.4	64.0	$0
Mt. Storm 2	MO	67805432 -Unit MO taken due to external tube leak on left wall 10 1/2 level between corner 4 and 5.	73.37	73.37	10/20/2014 0:12	10/23/2014 1:34	555.0	40,718.7	$7
Mt. Storm 2	U1	Unit auto tripped due to high drum level during startup.	2.93	2.93	10/23/2014 2:19	10/23/2014 5:15	555.0	1,627.8	$0
Mt. Storm 2	D1	67849330 A derate was increased due to a fault on A coal feeder variable frequency drive.	6.07	0.15	10/30/2014 7:40	10/30/2014 13:44	13.4	81.3	$4
Mt. Storm 2	U1	Unit taken offline due to tube leak in boiler superheat section.	63.07	63.07	11/2/2014 23:14	11/5/2014 14:18	555.0	35,002.2	$11
Mt. Storm 2	D1	Unit derated due to D feeder VFD failed.	57.55	-	11/3/2014 4:45	11/5/2014 14:18	23.4	1,346.7	$0
Mt. Storm 2	D1	Unit derated due to A forced draft fine tripping. Suspected motor failure.	52.77	25.99	11/5/2014 14:18	11/7/2014 19:04	273.4	14,426.5	$0
Mt. Storm 2	D4	67843571 - Unit derated due to turbine valve freedom testing. No issues or concerns noted in CRO Logs.	1.38	0.38	11/22/2014 1:05	11/22/2014 2:28	153.4	212.2	$0
Mt. Storm 2	D1	67861019 - Unit derated due to turbine valve freedom testing. During test Left throttle valve stuck shut upon opening attempt, valve opened on second attempt.	0.25	0.07	12/5/2014 22:58	12/5/2014 23:13	155.0	38.8	$0
Mt. Storm 2	D1	Unit derated to perform internal inspection on 2B coal mill.	0.87	0.09	12/6/2014 14:39	12/6/2014 15:31	55.0	47.7	$0
Mt. Storm 2	D1	Unit derated to repair coal leak on A mill coal piping.	0.35	0.01	12/19/2014 8:01	12/19/2014 8:22	15.0	5.3	$0
Mt. Storm 2	D4	Unit derated to perform turbine valve freedom testing. Did not test AFT throttle valves due to throttle valve failure alarm.	0.92	0.26	12/20/2014 1:58	12/20/2014 2:53	155.0	142.1	$0
Mt. Storm 3	U1	67727552 - Unit was removed from service due to fire in 3D Mill and A2 Burner Corner.	52.28	52.28	12/30/2013 12:38	1/3/2014 4:17	520.0	27,187.2	$443
Mt. Storm 3	D1	67727552 - Unit is derated due to damage incurred during a mill fire.	183.18	24.66	1/3/2014 4:17	1/10/2014 19:28	70.0	12,822.8	$0
Mt. Storm 3	D1	Unit derated due to SCR catalyst plugging.	3.63	0.11	1/17/2014 8:39	1/17/2014 12:17	15.0	54.5	$0
Mt. Storm 3	D1	Unit derated due to being ID fan limited.	383.72	7.38	1/17/2014 12:17	2/2/2014 12:00	10.0	3,837.2	$0
Mt. Storm 3	D1	Unit derated due to oil leaking from 3D mill worm gear packing.	2.38	0.37	1/21/2014 8:43	1/21/2014 11:06	80.0	190.6	$0
Mt. Storm 3	D4	67624478 - Unit 3A coal mill removed from service for a routine planned overhaul.	169.85	13.07	2/2/2014 12:00	2/9/2014 13:51	40.0	6,794.0	$420
Mt. Storm 3	D1	Unit derated due to 3F coal mill pyrite system.	0.62	0.11	2/4/2014 15:10	2/4/2014 15:47	95.0	58.6	$0
Mt. Storm 3	D4	67740083 - Unit derated due to Turbine Valve Freedom Test. No issues or concerns noted in CRO logs.	0.83	0.19	2/8/2014 2:02	2/8/2014 2:52	120.0	100.0	$0
Mt. Storm 3	D1	Unit derated due to ID fan saturation due to SCR pluggage.	871.27	25.13	2/10/2014 6:00	3/18/2014 14:16	15.0	13,069.0	$0
Mt. Storm 3	D1	67747765 - Unit derated due to coal leak on 3B coal mill.	1.53	0.16	2/17/2014 10:08	2/17/2014 11:40	55.0	84.3	$0
Mt. Storm 3	D1	Unit derated due to furnace pressure running positive.	5.63	0.05	2/18/2014 12:50	2/18/2014 18:28	5.0	28.2	$0
Mt. Storm 3	D1	Unit derated due to furnace pressure running positive. This is due to air preheater pluggage.	5.80	0.11	2/19/2014 8:27	2/19/2014 14:15	10.0	58.0	$0
Mt. Storm 3	D4	67755166 - Unit derated due to turbine valve freedom testing. No issues or concerns noted in CRO logs.	1.47	0.41	3/11/2014 2:02	3/11/2014 3:30	145.0	212.7	$0
Mt. Storm 3	U1	Unit manually tripped due to generator brush arcing.	66.73	66.73	3/18/2014 14:16	3/21/2014 9:00	520.0	34,701.2	$13
Mt. Storm 3	U1	Unit derated due to Normal Station Service Breaker not being fully racked on bus.	1.75	1.75	3/23/2014 8:39	3/23/2014 10:24	520.0	910.0	$0
Mt. Storm 3	U1	67767469 - Unit taken offline for tube leak. Leak located 8th floor corner #1 suspected water wall.	41.22	41.22	4/4/2014 10:03	4/6/2014 3:16	520.0	21,432.8	$20
Mt. Storm 3	D4	67775940 - Unit was derated due to Turbine Valve Freedom Testing. No issues were reported in CRO logs. Unit returned to service.	0.97	0.30	5/3/2014 1:59	5/3/2014 2:57	160.0	154.7	$0
Mt. Storm 3	D1	Unit load derated due to ID Fans running in saturation.	2.07	0.08	5/15/2014 16:06	5/15/2014 18:10	20.0	41.3	$0
Mt. Storm 3	D1	Unit derated due to ID Fans running in Saturation.	2.95	0.11	5/15/2014 21:31	5/16/2014 0:28	20.0	59.0	$0
Mt. Storm 3	D1	Unit derated due to ID fans running in saturation.	15.80	0.46	5/21/2014 16:37	5/22/2014 8:25	15.0	237.0	$0
Mt. Storm 3	D1	Unit derated due to fans running at 100% in saturation and failed capacity test.	58.05	1.68	5/29/2014 13:56	5/31/2014 23:59	15.0	870.8	$0
Mt. Storm 3	D1	Unit derated due to Full Load Capacity Testing results. Unit achieved 513.8 Nmw during summer 2014 Real Power Testing.	4,380.98	39.01	6/1/2014 0:00	11/30/2014 11:59	6.2	27,162.1	$0
Mt. Storm 3	D1	Unit derated due to fans running at 100% saturation and failed capacity test.	79.27	1.34	6/1/2014 0:01	6/4/2014 7:17	8.8	697.5	$0
Mt. Storm 3	D1	Unit derated due to ID fans running in saturation and low reheat temperature. Unit failed capacity test.	137.20	4.96	6/4/2014 7:18	6/10/2014 0:30	18.8	2,579.4	$0
Mt. Storm 3	D1	Unit derated due to Air preheater and SCR pluggage.	32.35	1.17	6/18/2014 18:15	6/20/2014 2:36	18.8	608.2	$0
Mt. Storm 3	MO	67793759 - Unit taken off line due to boiler tube leak and Preheater cleaning.	95.42	95.42	6/20/2014 2:36	6/24/2014 2:01	520.0	49,616.8	$20
Mt. Storm 3	D1	Unit derated due to ID fans saturated and boiler running positive.	18.52	0.67	7/1/2014 16:30	7/2/2014 11:01	18.8	348.1	$0
Mt. Storm 3	D1	Unit derated due to ID fans saturated and boiler running positive.	22.08	0.80	7/7/2014 11:55	7/8/2014 10:00	18.8	415.2	$0
Mt. Storm 3	D1	Unit derated due to ID fans saturated and Unit load swinging.	12.53	0.45	7/10/2014 18:31	7/11/2014 7:03	18.8	235.6	$0
Mt. Storm 3	D1	Unit derated due to ID fans saturated and Unit load swinging.	18.72	0.68	7/13/2014 17:25	7/14/2014 12:08	18.8	351.9	$0
Mt. Storm 3	D4	Unit derated due to D mill being taken out for worm gear packing replacement.	0.95	0.23	7/14/2014 13:37	7/14/2014 14:34	123.8	117.6	$0
Mt. Storm 3	D1	Unit currently has a 15 MW de-rate due to turbine deposits and condenser backpressure with a full load capability of 505 nMW}s	1,359.97	23.02	7/18/2014 8:07	9/13/2014 0:05	8.8	11,967.7	$0
Mt. Storm 3	D1	Unit derated due to ID fans saturated and Unit load swinging.	3.32	0.19	7/27/2014 13:27	7/27/2014 16:46	30.0	99.5	$0
Mt. Storm 3	D4	Unit derated due to stack testing (RATA).	5.75	1.16	8/14/2014 6:45	8/14/2014 12:30	105.0	603.8	$0
Mt. Storm 3	D4	67807954 - Unit derated due to Turbine Valve Freedom Testing. No issues or concerns noted in CRO logs.	1.65	0.46	8/16/2014 2:02	8/16/2014 3:41	145.0	239.3	$0
Mt. Storm 3	D4	Unit derated due to online set pressure testing of drum and superheat boiler safety valves. Testing complete and unit returned.	1.38	0.25	9/9/2014 17:37	9/9/2014 19:00	93.0	128.6	$0
Mt. Storm 3	D1	Unit derated due to #3 booster fans tripping. This forced the scrubber to be bypassed.	2.17	0.65	9/11/2014 9:07	9/11/2014 11:17	155.0	335.9	$0
Mt. Storm 3	PO	Unit taken offline due to fall outage.	838.52	838.52	9/13/2014 0:05	10/17/2014 22:36	520.0	436,028.8	$5,117
Mt. Storm 3	D1	Unit derated due to reduced steam flow and first stage pressure.	506.78	18.16	10/17/2014 22:36	11/8/2014 0:23	18.8	9,527.5	$0
Mt. Storm 3	U1	Unit was taken off due to 3B2 bus NSS supply breaker (3-EPH-SW-355) not closing in.	4.50	4.50	10/18/2014 4:44	10/18/2014 9:14	520.0	2,340.0	$0
Mt. Storm 3	MO	Unit MO taken to inspect #3 turbine control valves.	170.55	170.55	11/8/2014 0:23	11/15/2014 2:56	520.0	88,686.0	$72

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* Outage Type Key

U# = Unplanned Outage	NC = Non curtailing Event
MO = Maintenance Outage	ME = Extension of Maintenance Outage
PO = Planned Outage	PE = Extension of Planned Outage
SF = Start Failure	D# = Derates
PD = Planned Derating	DM = Maintenance Derate Extension

2014 Power Generation Outage Report

(Fossil & Hydro)

Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2014 Dates Start	2014 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Mt. Storm 3	D1	Unit derated due to feedwater control issues.	971.90	6.43	11/21/2014 12:06		3.8	3,693.2	$0
Mt. Storm 3	U1	67864818 Unit removed from service due to suspected tube leak 8 1/2 floor at #1 and #2 corners.	25.18	25.18	12/13/2014 4:16	12/14/2014 5:27	520.0	13,095.2	$16
Mt. Storm 3	D1	Unit derated due to ID fans saturated and boiler running positive.	17.70	0.72	12/16/2014 18:28	12/17/2014 12:10	21.2	375.2	$0
Mt. Storm 3	U1	67866251 - Unit removed from service due to reheat tube failure	67.18	67.18	12/17/2014 12:10	12/20/2014 7:21	520.0	34,935.2	$39
Mt. Storm CT1	SF	Ct would not start due to turbine tripping on low oil pressure. Found oil pressure sensor out of calibration.	33.77	33.77	12/31/2013 14:00	1/2/2014 9:46	11.0	371.4	$0
Mt. Storm CT1	SF	CT declared unavailable due to tripping on start up. This trip is due to low oil pressure on free turbine generator oil system.	75.08	75.08	1/7/2014 8:00	1/10/2014 11:05	11.0	825.9	$0
Mt. Storm CT1	SF	G68606 - Combustion Turbine failed to start due to low GG oil pressure.	2.80	2.80	2/11/2014 10:30	2/11/2014 13:18	11.0	30.8	$0
Mt. Storm CT1	MO	MO - RSST 1 was removed from service for planned maintenance which makes the combustion turbine unavailable	82.42	82.42	4/14/2014 12:00	4/17/2014 22:25	11.0	906.6	$0
Mt. Storm CT1	MO	MO taken to facilitate the removal and isolation of Reserve Station Service Transformer	49.07	49.07	6/23/2014 8:00	6/25/2014 9:04	11.0	539.7	$0
Mt. Storm CT1	MO	Maintenance outage taken on CT to perform inspection and maintenance on breakers and breaker wiring.	444.32	444.32	10/6/2014 7:00	10/24/2014 19:19	11.0	4,887.5	$8
Northern Neck CT1	U1	67731602 - GENERATOR BREAKER - UNIT 2	8.55	8.55	1/7/2014 6:15	1/7/2014 14:48	13.0	111.2	$9
Northern Neck CT1	MO	67731602 - GENERATOR BREAKER WORK - UNIT 2	12.88	12.88	1/9/2014 7:30	1/9/2014 20:23	13.0	167.5	$0
Northern Neck CT1	MO	67731602 - GENERATOR BREAKER WORK ON UNIT 2	11.08	11.08	1/14/2014 7:00	1/14/2014 18:05	13.0	144.1	$0
Northern Neck CT1	MO	67731602 - UNIT 2 GENERATOR BREAKER WORK	12.35	12.35	1/18/2014 7:00	1/18/2014 19:21	13.0	160.6	$0
Northern Neck CT1	MO	67755098 - BLACK START TESTING	0.83	0.83	3/25/2014 7:35	3/25/2014 8:25	12.0	10.0	$0
Northern Neck CT1	U1	67820443 - Unit tripped while performing Reactive Power Testing	2.25	2.25	8/28/2014 11:00	8/28/2014 13:15	12.0	27.0	$0
Northern Neck CT1	MO	Relay Testing	30.00	30.00	9/15/2014 7:00	9/16/2014 13:00	12.0	360.0	$0
Northern Neck CT1	MO	67831655 - diesel starting engine maintenance	4.67	4.67	10/9/2014 7:00	10/9/2014 11:40	12.0	56.0	$0
Northern Neck CT2	U1	67731602 - GENERATOR BREAKER - UNIT 2	277.10	277.10	1/7/2014 6:15	1/18/2014 19:21	13.0	3,602.3	$9
Northern Neck CT2	MO	67755098 - BLACK START TESTING	0.83	0.83	3/25/2014 7:35	3/25/2014 8:25	12.0	10.0	$0
Northern Neck CT2	MO	Relay testing	30.00	30.00	9/15/2014 7:00	9/16/2014 13:00	12.0	360.0	$0
Northern Neck CT3	U1	67731602 - GENERATOR BREAKER UNIT 2	2.20	2.20	1/7/2014 6:15	1/7/2014 8:27	13.0	28.6	$9
Northern Neck CT3	MO	67755098 - BLACK START TESTING	0.83	0.83	3/25/2014 7:35	3/25/2014 8:25	12.0	10.0	$0
Northern Neck CT3	U1	67764001 - 24V POWER SUPPLY FAILURE	53.00	53.00	3/26/2014 6:00	3/28/2014 11:00	12.0	636.0	$0
Northern Neck CT3	MO	Relay Testing	7.00	7.00	9/17/2014 7:00	9/17/2014 14:00	12.0	84.0	$0
Northern Neck CT4	U1	67731602 - GENERATOR BREAKER UNIT 2	2.23	2.23	1/7/2014 6:15	1/7/2014 8:29	12.5	27.9	$9
Northern Neck CT4	MO	67755098 - BLACK START TESTING	0.83	0.83	3/25/2014 7:35	3/25/2014 8:25	11.0	9.2	$0
Northern Neck CT4	MO	Relay Testing	7.00	7.00	9/17/2014 7:00	9/17/2014 14:00	11.0	77.0	$0
Pittsylvania 1	D1	Fuel moisture and ash content is high and flyash system was backing up with ash.	1.50	0.78	1/5/2014 21:00	1/5/2014 22:30	43.0	64.5	$0
Pittsylvania 1	D1	Fuel moisture and ash content is high and flyash system was backing up.	2.83	0.79	1/5/2014 22:30	1/6/2014 1:20	23.0	65.2	$0
Pittsylvania 1	D1	Fuel moisture and ash content is high and flyash system was backing up.	117.00	15.51	1/6/2014 1:20	1/10/2014 22:20	11.0	1,287.0	$0
Pittsylvania 1	D1	Station was in reserve shutdown when an operator observed a leak on Boiler #3 waterwall	1.83	0.95	1/12/2014 21:30	1/12/2014 23:20	43.0	78.8	$3
Pittsylvania 1	D1	Failed power supply in control board for TG#1 delayed TG start resulting in derate to 35 MW's	3.05	1.76	1/21/2014 3:54	1/21/2014 6:57	48.0	146.4	$0
Pittsylvania 1	U1	Plant tripped due to loss of fuel flow.	4.68	4.68	1/24/2014 6:29	1/24/2014 11:10	83.0	388.7	$0
Pittsylvania 1	D1	Station was starting up following plant trip and TG#2 will not synchronize to the grid.	11.40	6.73	1/24/2014 11:10	1/24/2014 22:34	49.0	558.6	$0
Pittsylvania 1	D1	Boiler 1's fuel jammed at distribution screws preventing fuel to flow into furnace.	2.72	1.74	1/26/2014 21:17	1/27/2014 0:00	53.0	144.0	$0
Pittsylvania 1	D1	Station derated due to wood having high ash and low BTU content	50.65	6.71	1/29/2014 18:29	1/31/2014 21:08	11.0	557.2	$0
Pittsylvania 1	D1	Unit off line for economy - tube leak discovered on south waterwall of boiler #1 WO#67742036	1.58	0.73	2/2/2014 8:28	2/2/2014 10:03	38.0	60.2	$2
Pittsylvania 1	U1	Boiler #1 tripped resulting in low steam header pressure and tripping of both TG's	0.75	0.75	2/3/2014 4:10	2/3/2014 4:55	83.0	62.3	$0
Pittsylvania 1	D1	Station derated tp 30 MW's due to cracks in top of precipitator allowing rainwater into precipitators	36.03	23.01	2/3/2014 12:22	2/5/2014 0:24	53.0	1,909.7	$14
Pittsylvania 1	D4	Station scheduled a maintenance derate to repair economizer tube leak on Boiler #3. WO# 67743321	35.97	22.97	2/6/2014 0:01	2/7/2014 11:59	53.0	1,906.3	$20
Pittsylvania 1	D1	Boiler 1 tripped after loss of fuel flow to the boiler from plugged fuel distribution box.	1.42	0.91	3/13/2014 4:07	3/13/2014 5:32	53.0	75.1	$0
Pittsylvania 1	D1	Long length of sticks in fuel clogged fuel chute feeding boiler 1.	1.80	1.15	3/26/2014 10:44	3/26/2014 12:32	53.0	95.4	$0
Pittsylvania 1	D4	Boiler 2 Exterior Tube leak on 157' level WO#67762761	14.42	8.34	3/29/2014 0:01	3/29/2014 14:26	48.0	692.0	$2
Pittsylvania 1	D1	Derated to 65 nMW due to wet fuel and heavy loading of ash on flyash conveyors.	2.53	0.55	4/15/2014 9:12	4/15/2014 11:44	18.0	45.6	$0
Pittsylvania 1	D1	Plant in reserved shutdown when boiler 2 right side water leak was identified as tube failure Work order: 67772030.	5.90	2.70	4/19/2014 17:56	4/19/2014 23:50	38.0	224.2	$5
Pittsylvania 1	D1	Fuel plug in boiler 1 fuel chute from long sticks that tripped and burned up drive belts on distribution screws.	0.72	0.46	5/3/2014 8:10	5/3/2014 8:53	53.0	38.0	$0
Pittsylvania 1	D1	Continuation of event 27, increase unit capability from 30 to 40	3.27	1.69	5/3/2014 8:53	5/3/2014 12:09	43.0	140.5	$0
Pittsylvania 1	PO	Spring Outage for boiler work.	335.30	335.30	5/10/2014 0:32	5/23/2014 23:50	83.0	27,829.9	$842
Pittsylvania 1	SF	Steam Driven Boiler Feed Pumps 1 & 3 oil lines were leaking and had to be shut down.	3.63	3.63	5/26/2014 6:16	5/26/2014 9:54	83.0	301.5	$0
Pittsylvania 1	D1	TG1 tripped offline causing station to derate to 30 nMWs.	3.60	2.30	5/27/2014 21:43	5/28/2014 1:19	53.0	190.8	$0
Pittsylvania 1	MO	Weigh Scale calibration and belt alignment	11.98	11.98	5/31/2014 0:01	5/31/2014 12:00	83.0	994.6	$0
Pittsylvania 1	ME	Weigh Scale calibration and belt alignment.	10.00	10.00	5/31/2014 12:00	5/31/2014 22:00	83.0	830.0	$0
Pittsylvania 1	D4	Boiler 2's OFA damper linkage required repair, boiler 2 had a leak in generating bank tube and fuel distribution air fan motor failure.	42.13	21.83	5/31/2014 22:00	6/2/2014 16:08	43.0	1,811.7	$14
Pittsylvania 1	D1	OFA 3 damper was stuck open in the 100% position causing combustion problems requiring plant to take boiler 3 offline.	2.88	1.49	6/6/2014 2:33	6/6/2014 5:26	43.0	124.0	$0
Pittsylvania 1	D1	Steam leak from cracked weld on TG2's 1/4 pipe leg between ESV and Throttle valves."	11.78	7.52	6/6/2014 5:26	6/6/2014 17:13	53.0	624.5	$2
Pittsylvania 1	D1	Continuation of event 37, derate increased from 30 MWs to 38 MWs after boiler 3 was return to service from event 36.	25.53	13.84	6/6/2014 17:13	6/7/2014 18:45	45.0	1,149.0	$0
Pittsylvania 1	D1	Derate to maintain 30 day NOx average within limits	3.05	0.29	6/12/2014 16:23	6/12/2014 19:26	8.0	24.4	$0

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* Outage Type Key

U# = Unplanned Outage
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NC = Non curtailing Event
ME = Extension of Maintenance Outage
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2014 Power Generation Outage Report
(Fossil & Hydro)

Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2014 Dates Start	2014 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Pittsylvania 1	D1	Continuation of previous event, hourly NOx averages began increasing so further derate from 75	5.07	0.79	6/12/2014 19:26	6/13/2014 0:30	13.0	65.9	$0
Pittsylvania 1	D1	High hourly NOx Averages from fuel change.	6.48	1.02	6/20/2014 17:00	6/20/2014 23:29	13.0	84.3	$0
Pittsylvania 1	D1	Derate to 70 MWs due to high NOx averages during startup.	10.63	1.67	6/23/2014 14:27	6/24/2014 1:05	13.0	138.2	$0
Pittsylvania 1	D1	Boiler 2's Fuel Distribution Air Fan circuit breaker tripped.	5.90	3.06	7/7/2014 9:30	7/7/2014 15:24	43.0	253.7	$0
Pittsylvania 1	MO	Maintenance outage to replace valve trim, strainer in 370 desuperheater and make wood belt scale adjustments.	22.98	22.98	7/19/2014 0:01	7/19/2014 23:00	83.0	1,907.6	$7
Pittsylvania 1	D4	Planned Derate to set boiler 3 North Drum Safety.	1.48	0.32	8/8/2014 11:07	8/8/2014 12:36	18.0	26.7	$0
Pittsylvania 1	U1	Tree Stump in fuel supply caused fuel flow stop on wood belt 1 at dumbell roller.	6.22	6.22	8/17/2014 8:51	8/17/2014 15:04	83.0	516.0	$0
Pittsylvania 1	D1	Unplanned derate to 71 MWs after fuel conveyor sprinkler nozzle broke off activating fire system that wetted wood causing feeder plug.	0.98	0.14	10/7/2014 19:38	10/7/2014 20:37	12.0	11.8	$0
Pittsylvania 1	D1	Derate to 34 nMWs after Turbine Generator 1 tripped when ESV closed from low hydraulic oil pressure.	5.28	3.12	10/26/2014 2:28	10/26/2014 7:45	49.0	258.9	$0
Pittsylvania 1	PO	PO semi annual furnace tube wash for NOx emissions, boiler system and conveyor repairs.	167.97	167.97	11/15/2014 0:01	11/21/2014 23:59	83.0	13,941.3	$452
Pittsylvania 1	D1	Turbine generator 1 tripped offline because of mechanical overspeed mechanism.	3.97	2.29	11/23/2014 5:02	11/23/2014 9:00	48.0	190.4	$0
Pittsylvania 1	D1	Wood belt 2 scale reading went to negative reading requiring fuel feed to be run in manual mode.	0.70	0.36	11/24/2014 14:44	11/24/2014 15:26	43.0	30.1	$0
Pittsylvania 1	D1	Fuel Reclaim Screws were bridged over from stringy fuel thereby restricting fuel flow to the boilers.	2.20	1.41	11/26/2014 13:41	11/26/2014 15:53	53.0	116.6	$0
Pittsylvania 1	U1	Turbine Generators 1&2 tripped offline from high exhaust pressure after motor starter B side switch tripped and removed power to Circulating pumps and Cooling Tower Fans.	1.92	1.92	12/10/2014 16:51	12/10/2014 18:46	83.0	159.1	$0
Pittsylvania 1	D1	Large stick in fuel supply tripped wood belt 3 and clogged fuel flow to boiler 1.	0.60	0.24	12/18/2014 18:30	12/18/2014 19:06	33.0	19.8	$0
Pittsylvania 1	D1	Scalper screen and reclaim screws tripped. Short time period of derate to 30 nMW prior to unplanned forced outage.	0.20	0.13	12/21/2014 3:40	12/21/2014 3:52	53.0	10.6	$0
Pittsylvania 1	U1	Continuation of event 73. The scalper screens tripped causing fuel reclaimer screws to trip off and thereby loss of fuel supply to boilers.	10.25	10.25	12/21/2014 3:53	12/21/2014 14:08	83.0	850.8	$0
Possum Point 3	U1	PP3 on Unplanned (Forced) Outage due to Natural Gas Pipeline Restrictions	167.97	167.97	1/3/2014 0:01	1/9/2014 23:59	96.0	16,124.8	$0
Possum Point 3	U1	PP3 on Unplanned (Forced) Outage due to Natural Gas Pipeline Restrictions	61.40	61.40	1/10/2014 10:35	1/12/2014 23:59	96.0	5,894.4	$0
Possum Point 3	SF	PP3 on Startup Failure due to Voltage Regulator	2.23	2.23	1/21/2014 7:01	1/21/2014 9:15	96.0	214.4	$0
Possum Point 3	D1	PP3 on Forced Derating due to Fuel Conservation	45.15	26.34	1/22/2014 0:01	1/23/2014 21:10	56.0	2,528.4	$0
Possum Point 3	U1	P3 on Unplanned (Forced) Outage due to Natural Gas Pipeline Restrictions	68.98	68.98	1/24/2014 12:01	1/27/2014 9:00	96.0	6,622.4	$0
Possum Point 3	U1	PP3 on Forced Outage due to hydrogen supply	2.43	2.43	1/28/2014 2:18	1/28/2014 4:44	96.0	233.6	$0
Possum Point 3	U1	PP3 on Unplanned (Forced) Outage due to Personnel Error	0.08	0.08	1/28/2014 11:19	1/28/2014 11:24	96.0	8.0	$0
Possum Point 3	PO	PP3 in Planned Outage for Boiler Maintenance.	742.40	742.40	4/7/2014 0:01	5/7/2014 22:25	96.0	71,270.4	$32
Possum Point 3	MO	PP3 on Maintenance Outage for Intake Structure Repairs on Unit 4.	90.48	90.48	5/21/2014 0:01	5/24/2014 18:30	96.0	8,686.4	$90
Possum Point 3	U1	PP3 in Forced Outage due to high drum level.	2.55	2.55	6/18/2014 13:26	6/18/2014 15:59	96.0	244.8	$0
Possum Point 3	PO	PP3 in Planned Outage due to Forced Draft Fan motor and ductwork maintenance.	850.45	850.45	10/11/2014 0:01	11/15/2014 9:28	96.0	81,643.2	$162
Possum Point 3	MO	PP3 in Maintenance Outage for Turbine Valve Repair.	474.70	474.70	11/22/2014 0:01	12/11/2014 18:43	96.0	45,571.2	$100
Possum Point 4	U1	PP4 on Unplanned (Forced) Outage due to Natural Gas Pipeline Restrictions	167.97	167.97	1/3/2014 0:01	1/9/2014 23:59	220.0	36,952.7	$0
Possum Point 4	U1	P4 on Unplanned (Forced) Outage due to Natural Gas Pipeline Restrictions	61.38	61.38	1/10/2014 10:36	1/12/2014 23:59	220.0	13,504.3	$0
Possum Point 4	D1	PP4 on Forced Derating due to Fuel Conservation	46.98	32.03	1/22/2014 0:01	1/23/2014 23:00	150.0	7,047.5	$0
Possum Point 4	U1	P4 on Unplanned (Forced) Outage due to Natural Gas Pipeline Restrictions	68.98	68.98	1/24/2014 12:01	1/27/2014 9:00	220.0	15,176.3	$0
Possum Point 4	MO	PP4 on Maintenance Outage for 480 Volts AC Switchgear Maintenance.	70.15	70.15	3/11/2014 0:01	3/13/2014 22:10	220.0	15,433.0	$0
Possum Point 4	MO	PP4 on Maintenance Outage for Hydrogen seal oil system repair.	70.82	70.82	3/15/2014 0:01	3/17/2014 22:50	220.0	15,579.7	$0
Possum Point 4	U1	PP4 in Forced Outage due to Drum Level High Trip	0.85	0.85	3/24/2014 0:15	3/24/2014 1:06	220.0	187.0	$0
Possum Point 4	D1	PP4 on Unplanned (Forced) Derating due to Boiler Water Chemistry.	10.73	4.88	3/24/2014 6:00	3/24/2014 16:44	100.0	1,073.3	$0
Possum Point 4	MO	PP4 in Maintenance Outage for Boiler Circulating Water Pump repairs.	41.97	41.97	4/1/2014 0:01	4/2/2014 17:59	220.0	9,232.7	$2
Possum Point 4	ME	PP4 in Maintenance Outage Extension for Boiler Circulating Water Pump repairs.	45.77	45.77	4/2/2014 17:59	4/4/2014 15:45	220.0	10,068.7	$0
Possum Point 4	PO	PP4 in Planned Outage for Condenser Maintenance.	921.47	921.47	4/20/2014 0:01	5/28/2014 9:29	220.0	202,722.7	$114
Possum Point 4	D1	PP4 on Forced Derate due to Boiler Water Chemistry.	2.25	1.02	6/17/2014 13:05	6/17/2014 15:20	100.0	225.0	$0
Possum Point 4	D1	PP4 in Forced Derate due to drum level control issues.	6.12	3.20	6/18/2014 9:31	6/18/2014 15:38	115.0	703.5	$0
Possum Point 4	MO	PP4 in Maintenance Outage due to Boiler Tube Leak.	39.40	39.40	6/23/2014 0:01	6/24/2014 15:25	220.0	8,668.0	$0
Possum Point 4	MO	PP4 in Maintenance Outage due to Motor Driven Boiler Feed Pump.	44.90	44.90	7/4/2014 0:01	7/5/2014 20:55	220.0	9,878.0	$1
Possum Point 4	D1	PP4 in Forced Derate due to Boiler Water Chemistry.	8.52	2.71	7/7/2014 15:20	7/7/2014 23:51	70.0	596.2	$0
Possum Point 4	U1	PP4 in Forced Outage due to Instrument Air compressor.	19.92	19.92	7/7/2014 23:51	7/8/2014 19:46	220.0	4,381.7	$0
Possum Point 4	D1	PP4 in Forced Derate due to Boiler Water Chemistry.	7.23	1.55	7/9/2014 16:45	7/9/2014 23:59	47.0	340.0	$0
Possum Point 4	PO	PP4 in Planned Outage for Low Pressure Turbine air in-leakage repairs.	2,036.38	2,036.38	9/6/2014 0:01	11/29/2014 19:24	220.0	448,004.3	$732
Possum Point 5	D1	PP5 on Unplanned Derate due to a steam leak at an external pipe to the Boiler.	16.83	5.91	1/7/2014 15:35	1/8/2014 8:25	276.0	4,645.9	$0
Possum Point 5	D1	PP5 on Unplanned Derate due to a steam leak at an external pipe to the Boiler.	1.93	1.20	1/8/2014 8:25	1/8/2014 10:21	486.0	939.4	$6
Possum Point 5	U1	PP5 on Unplanned (Forced) Outage due to a steam leak in an external pipe to the Boiler.	38.60	38.60	1/8/2014 10:21	1/10/2014 0:57	786.0	30,339.6	$6
Possum Point 5	U1	PP5 on Unplanned (Forced) Outage due to a leak in the Motor Driven Boiler Feed Pump recirculation line.	6.65	6.65	1/20/2014 17:22	1/21/2014 0:01	786.0	5,226.9	$1
Possum Point 5	D1	PP5 on Unplanned (Forced) Derating due to hole in the Forced Draft Fan Duct.	70.50	16.68	1/22/2014 12:30	1/25/2014 11:00	186.0	13,113.0	$0
Possum Point 5	MO	PP5 on Maintenance Outage for Forced Draft Fan Duct Repair	28.00	28.00	1/25/2014 11:00	1/26/2014 15:00	786.0	22,008.0	$27
Possum Point 5	D1	PP5 on Unplanned (Forced) Derating due to Boiler Water Chemistry.	6.45	2.35	1/27/2014 10:20	1/27/2014 16:47	286.0	1,844.7	$0
Possum Point 5	D1	PP5 on Unplanned (Forced) Derating due to Opacity issues.	2.92	0.17	1/28/2014 21:23	1/29/2014 0:18	46.0	[illegible]	$0

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D# = Derates
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2014 Power Generation Outage Report
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Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2014 Dates Start	2014 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Possum Point 5	MO	PP5 on Maintenance Outage for to Boiler Tube Leak Repairs	141.05	141.05	2/3/2014 0:01	2/8/2014 21:04	786.0	110,865.3	$0
Possum Point 5	MO	PP5 on Maintenance Outage for Circulating Water Make up Line	19.60	19.60	2/10/2014 0:01	2/10/2014 19:37	786.0	15,405.6	$0
Possum Point 5	MO	PP5 on Maintenance Outage for Circulating Water Makeup Line Leak Repair	79.00	79.00	2/11/2014 7:42	2/14/2014 14:42	786.0	62,094.0	$5
Possum Point 5	PO	PP5 in Planned Outage for Boiler Maintenance	2,063.97	2,063.97	3/15/2014 0:01	6/8/2014 23:59	786.0	1,622,278.1	$4,520
Possum Point 5	D1	PP5 Derated due to Failed Summer Capacity Test.	4,392.98	19.66	6/1/2014 0:00	11/30/2014 23:59	16.3	71,605.6	$0
Possum Point 5	MO	PP5 in Maintenance Outage for Forced Draft Fan Motors.	477.03	477.03	6/9/2014 0:00	6/28/2014 21:02	786.0	374,947.9	$0
Possum Point 5	MO	PP5 in Maintenance Outage due to Forced Draft Fan Duct.	135.13	135.13	7/14/2014 0:01	7/19/2014 15:09	786.0	106,214.5	$0
Possum Point 5	D1	PP5 in Unplanned (Forced) Derating due to Heavy Oil pump problem.	2.70	1.31	8/1/2014 9:30	8/1/2014 12:12	381.7	1,030.6	$4
Possum Point 5	MO	PP5 in Maintenance Outage due to Boiler Circulating Water Pump Work.	456.00	456.00	8/4/2014 0:01	8/23/2014 0:01	786.0	358,416.0	$3
Possum Point 5	MO	PP5 in Maintenance Outage for Pre-Outage Preparation.	119.97	119.97	9/1/2014 0:01	9/5/2014 23:59	786.0	94,294.1	$0
Possum Point 5	PO	PP5 in Planned Outage for Secondary Ductwork Replacement.	2,562.20	2,562.20	9/5/2014 23:59	12/21/2014 17:11	786.0	2,013,889.2	$1,991
Possum Point 6	D4	PP6 B on Maintenance Derate for Liquid Fuel preparedness.	47.67	21.32	1/18/2014 0:38	1/20/2014 0:18	250.0	11,916.8	$42
Possum Point 6	D4	PP6 B on Maintenance Derate for Liquid Fuel Test.	1.37	0.37	1/20/2014 0:18	1/20/2014 1:40	150.0	205.1	$0
Possum Point 6	D1	PP6 B on Unplanned (Forced) Derate due to High Temperature Exhaust spread	6.95	3.11	1/22/2014 5:39	1/22/2014 12:36	250.0	1,737.5	$0
Possum Point 6	D1	PP6 B on Unplanned Derate due to Inlet Bleed Heat Valve	18.27	2.58	1/23/2014 5:56	1/24/2014 0:12	79.0	1,443.1	$0
Possum Point 6	D4	PP6 B in Maintenance Derate to change fuels	1.13	0.85	1/24/2014 0:12	1/24/2014 1:20	419.0	474.7	$0
Possum Point 6	D4	PP6 B in Maintenance Derate to change fuels	3.03	2.27	1/27/2014 23:22	1/28/2014 2:24	419.0	1,270.8	$0
Possum Point 6	D4	PP6 B in Maintenance Derate to change fuels	1.07	0.80	1/28/2014 11:06	1/28/2014 12:10	419.0	447.1	$0
Possum Point 6	D4	PP6B in Maintenance Derate to change fuels	1.13	0.61	2/7/2014 10:46	2/7/2014 11:54	299.0	338.8	$0
Possum Point 6	D1	PP6B in Forced Derate due to Water Injection Leak	11.52	6.24	2/7/2014 12:37	2/8/2014 0:08	303.0	3,489.7	$1
Possum Point 6	D1	PP6 A in Forced Derate for duct burner limit switch feedback	4.10	1.17	3/17/2014 17:33	3/17/2014 21:39	159.0	651.9	$0
Possum Point 6	D4	PP6 B in Maintenance Derate to test liquid fuel system	2.08	1.56	3/21/2014 12:53	3/21/2014 14:58	419.0	872.8	$0
Possum Point 6	D4	PP6 B in Maintenance Derate to repair water injection leak	4.90	2.80	3/21/2014 15:22	3/21/2014 20:16	319.0	1,563.1	$0
Possum Point 6	D1	PP6 A in Unplanned Derate due to Duct Burners	0.18	-	3/26/2014 6:00	3/26/2014 6:11	7.0	1.3	$0
Possum Point 6	D4	Unit 6A Combustion Turbine in Maintenance Derate for Compressor Offline Water Wash.	23.68	12.75	4/4/2014 0:34	4/5/2014 0:15	301.0	7,128.6	$3
Possum Point 6	PO	PP6 in Planned Outage for Boroscope Inspection.	376.17	376.17	4/5/2014 0:15	4/20/2014 16:25	559.0	210,277.4	$732
Possum Point 6	U1	PP6 in Forced Outage due to combustion turbine Hot Reheat Steam Bypass Valve.	3.92	3.92	4/21/2014 6:00	4/21/2014 9:55	559.0	2,189.6	$0
Possum Point 6	D1	PP6B in Forced Derate due to the Hot Reheat Steam Bypass Valve.	6.52	3.14	4/21/2014 9:55	4/21/2014 16:26	269.0	1,753.1	$0
Possum Point 6	D1	PP6 in Forced Derate due to Vacuum issues.	5.32	2.42	4/21/2014 19:03	4/22/2014 0:22	254.0	1,350.5	$0
Possum Point 6	D1	PP6B in Forced Derate due to low discharge pressure in the #2 Bearing Tunnel cooling system.	6.92	3.84	4/30/2014 7:40	4/30/2014 14:35	310.0	2,144.3	$0
Possum Point 6	D1	PP6 B on Forced Derate due to Duct Burners	1.15	0.07	5/1/2014 11:48	5/1/2014 12:57	35.0	40.3	$0
Possum Point 6	D1	PP6 in Forced Derate due to Duct Burners	0.50	0.07	5/13/2014 11:15	5/13/2014 11:45	75.0	37.5	$0
Possum Point 6	D1	PP6 B in Forced Derate due to Duct Burners	3.42	0.36	5/13/2014 11:45	5/13/2014 15:10	59.0	201.6	$0
Possum Point 6	D1	PP6 A in Forced Derate due to low discharge pressure in the #2 Bearing Tunnel Cooling System	5.12	2.87	5/16/2014 5:53	5/16/2014 11:00	313.0	1,601.6	$0
Possum Point 6	D1	PP6 Derated due to Failed Summer Capacity Test.	4,392.98	74.56	6/1/2014 0:00	11/30/2014 23:59	11.3	49,640.7	$0
Possum Point 6	D4	PP6B Combustion Turbine in Maintenance Derate for Offline Compressor Wash	7.52	3.87	6/13/2014 0:40	6/13/2014 8:11	287.7	2,162.6	$3
Possum Point 6	U1	PP6 in Forced Outage due to Steam Leak in Cold Reheat Line.	42.20	42.20	6/13/2014 8:11	6/15/2014 2:23	559.0	23,589.8	$6
Possum Point 6	D4	PP6A Combustion Turbine in Maintenance Derate for Offline Compressor Wash	15.12	7.78	6/15/2014 2:23	6/15/2014 17:30	287.7	4,349.2	$1
Possum Point 6	D1	PP6A Combustion Turbine and Steam Turbine in Forced Derate due to Sync Guard Relay.	4.05	3.46	6/16/2014 9:43	6/16/2014 13:46	477.7	1,934.7	$0
Possum Point 6	D1	PP6A Combustion Turbine in Forced Derate due to Exhaust Frame Seals.	66.15	35.23	7/5/2014 2:40	7/7/2014 20:49	297.7	19,692.9	$40
Possum Point 6	D4	PP6B Combustion Turbine in Maintenance Derate due to Exhaust Frame Seal.	41.30	23.47	7/18/2014 0:37	7/19/2014 17:55	317.7	13,121.0	$1
Possum Point 6	D1	PP6 B Combustion Turbine in Forced Derate due to the Emergency Seal Oil Pump.	13.07	6.84	7/21/2014 9:55	7/21/2014 22:59	292.7	3,824.7	$0
Possum Point 6	U1	PP6 in Forced Derate due to Generator Protective Relay Trip.	7.73	7.73	7/27/2014 16:07	7/27/2014 23:51	559.0	4,322.7	$3
Possum Point 6	PO	PP6 in Planned Outage for Boroscope Inspections.	654.77	654.77	10/4/2014 0:32	10/31/2014 7:18	559.0	366,014.8	$1,573
Possum Point 6	PD	PP6A in Planned Derating for Liquid Fuel Testing.	17.47	9.61	10/31/2014 7:18	11/1/2014 0:46	307.7	5,374.6	$0
Possum Point 6	D4	PP6A Combustion Turbine in Maintenance Derating for tuning.	2.97	0.78	11/4/2014 12:30	11/4/2014 15:28	147.7	438.2	$0
Possum Point 6	D4	PP6 in Maintenance Derating due to Fuel Transfer.	8.38	4.47	11/8/2014 7:27	11/8/2014 15:50	297.7	2,495.6	$0
Possum Point 6	D4	PP6 in Maintenance Derating due to Fuel Transfer.	5.67	3.02	11/15/2014 11:00	11/15/2014 16:40	297.7	1,687.1	$0
Possum Point 6	D1	PP6 Steam Turbine in Unplanned Derating due to Generator Protective Relay Trip.	22.90	14.24	11/20/2014 17:43	11/21/2014 16:37	347.7	7,962.3	$0
Possum Point 6	D4	PP6 in Maintenance Derating due to Fuel Transfer.	4.45	2.37	11/24/2014 11:00	11/24/2014 15:27	297.7	1,324.8	$0
Possum Point 6	D4	PP6 in Maintenance Derating due to Fuel Transfer.	3.83	2.12	12/3/2014 11:12	12/3/2014 15:02	309.0	1,184.4	$0
Possum Point 6	D1	PP6 in Forced Derating due to Circulating Water Pump	3.18	1.42	12/6/2014 3:48	12/6/2014 6:59	249.0	792.6	$2
Possum Point 6	D4	PP6 in Maintenance Derating due to Fuel Transfer.	2.65	1.47	12/9/2014 11:07	12/9/2014 13:46	309.0	818.9	$0
Possum Point 6	D4	PP6 in Maintenance Derating due to Boiler Safety Valve Setting	1.67	0.92	12/10/2014 9:45	12/10/2014 11:25	309.0	515.1	$0
Possum Point 6	PD	PP6B in Planned Derating for Liquid Fuel Purge Valve Repair.	41.22	22.78	12/11/2014 0:32	12/12/2014 17:45	309.0	12,736.1	$1
Possum Point 6	U1	PP6 in Force Outage due to High Pressure Valve leak	35.55	35.55	12/13/2014 12:44	12/15/2014 0:17	559.0	19,872.5	$9
Possum Point 6	D4	PP6 in Maintenance Derating due to Fuel Transfer.	1.72	0.95	12/16/2014 11:00	12/16/2014 12:43	309.0	530.6	$0
Possum Point 6	D4	PP6 in Maintenance Derating due to Fuel Transfer.	3.28	1.82	12/22/2014 11:00	12/22/2014 14:17	309.0	1,014.4	$0
Possum Point 6	D4	PP6 in Maintenance Derating due to Fuel Transfer.	3.17	1.75	12/23/2014 11:00	12/23/2014 14:10	309.0	971.6	$0

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Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2014 Dates Start	2014 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Possum Point 6	D4	PP6 in Maintenance Derating due to Fuel Transfer.	2.50	1.38	12/29/2014 11:00	12/29/2014 13:30	309.0	772.5	$0
Possum Point 6	D4	PP6 in Maintenance Derating due to Fuel Transfer.	1.33	0.74	12/30/2014 11:00	12/30/2014 12:20	309.0	411.9	$0
Possum Point CT1	U1	67731603 - BREAKER FAILURE TIMER TRIPPED	2.72	2.72	1/8/2014 12:05	1/8/2014 14:48	11.9	32.3	$0
Possum Point CT1	U1	67731945 - LINE BREAKERS TRIPPED	8.28	8.28	1/8/2014 23:44	1/9/2014 8:01	11.9	98.6	$1
Possum Point CT1	MO	67762383 - NERC BLACK START TESTING	1.88	1.88	4/17/2014 7:00	4/17/2014 8:53	11.9	22.4	$0
Possum Point CT1	MO	67493720 - SYSTEM PROTECTION RELAY TESTING	79.60	79.60	5/12/2014 8:00	5/15/2014 15:36	11.9	947.2	$0
Possum Point CT1	U1	67499889 - Line Breakers tripped during System Protection Testing	1.50	1.50	5/20/2014 8:45	5/20/2014 10:15	11.9	17.9	$0
Possum Point CT2	U1	67731603 - BREAKER FAILURE TIMER TRIPPED	2.72	2.72	1/8/2014 12:05	1/8/2014 14:48	13.0	35.3	$0
Possum Point CT2	U1	67731945 - LINE BREAKERS TRIPPED	8.28	8.28	1/8/2014 23:44	1/9/2014 8:01	13.0	107.7	$1
Possum Point CT2	MO	67762383 - NERC BLACK START TESTING	1.88	1.88	4/17/2014 7:00	4/17/2014 8:53	11.9	22.4	$0
Possum Point CT2	MO	67493720 - SYSTEM PROTECTION RELAY TESTING	79.60	79.60	5/12/2014 8:00	5/15/2014 15:36	11.9	947.2	$0
Possum Point CT2	U1	67499889 - Line Breakers tripped during System Protection Testing	1.50	1.50	5/20/2014 8:45	5/20/2014 10:15	11.9	17.9	$0
Possum Point CT3	U1	67731603 - BREAKER FAILURE TIMER TRIPPED	2.72	2.72	1/8/2014 12:05	1/8/2014 14:48	11.9	32.3	$0
Possum Point CT3	U1	67731945 - LINE BREAKERS TRIPPED	8.28	8.28	1/8/2014 23:44	1/9/2014 8:01	11.9	98.6	$1
Possum Point CT3	MO	67762383 - NERC BLACK START TESTING	1.88	1.88	4/17/2014 7:00	4/17/2014 8:53	11.9	22.4	$0
Possum Point CT3	MO	67493720 - SYSTEM PROTECTION RELAY TESTING	79.60	79.60	5/12/2014 8:00	5/15/2014 15:36	11.9	947.2	$0
Possum Point CT3	U1	67499889 - Line Breakers tripped during System Protection Testing	1.50	1.50	5/20/2014 8:45	5/20/2014 10:15	11.9	17.9	$0
Possum Point CT3	MO	67831665 - perform annual starting diesel engine PM	6.57	6.57	10/7/2014 7:00	10/7/2014 13:34	11.9	78.1	$0
Possum Point CT3	MO	67844110 - repair coupling between the AC and DC lube oil pump motors	3.37	3.37	10/16/2014 8:00	10/16/2014 11:22	11.9	40.1	$0
Possum Point CT4	U1	67731603 - BREAKER FAILURE TIMER TRIPPED	2.72	2.72	1/8/2014 12:05	1/8/2014 14:48	11.9	32.3	$0
Possum Point CT4	U1	67731945 - LINE BREAKERS TRIPPED	736.13	736.13	1/8/2014 23:44	2/8/2014 15:52	11.9	8,760.0	$1
Possum Point CT4	MO	67754619 - RADIATOR COOLING FAN PEDESTAL BEARING REPLACEMENT	58.93	58.93	3/26/2014 8:02	3/28/2014 18:58	11.9	701.3	$13
Possum Point CT4	MO	67755100 - NERC BLACK START TESTING	1.88	1.88	4/17/2014 7:00	4/17/2014 8:53	11.9	22.4	$0
Possum Point CT4	MO	67499889 - PROTECTION RELAY TESTING	74.07	74.07	5/19/2014 7:00	5/22/2014 9:04	11.9	881.4	$0
Possum Point CT4	MO	67831666 - perform annual starting diesel engine PM	6.57	6.57	10/7/2014 7:00	10/7/2014 13:34	11.9	78.1	$0
Possum Point CT5	U1	67731603 - BREAKER FAILURE TIMER TRIPPED	2.72	2.72	1/8/2014 12:05	1/8/2014 14:48	13.0	35.3	$0
Possum Point CT5	U1	67731945 - LINE BREAKERS TRIPPED	207.52	207.52	1/8/2014 23:44	1/17/2014 15:15	13.0	2,697.7	$1
Possum Point CT5	MO	67731945 - 13.8 KV CABLE REPLACEMENT TO UNIT 4 AND STATION SERVICE TRANSFORMER	51.87	51.87	2/6/2014 12:00	2/8/2014 15:52	11.9	617.2	$0
Possum Point CT5	MO	67755100 - NERC BLACK START TESTING	1.88	1.88	4/17/2014 7:00	4/17/2014 8:53	11.9	22.4	$0
Possum Point CT5	MO	67499889 - PROTECTION RELAY TESTING	74.07	74.07	5/19/2014 7:00	5/22/2014 9:04	11.9	881.4	$0
Possum Point CT6	U1	67733222 - FAILED TO FIRE BY REMOTE START	1.57	1.57	1/7/2014 5:12	1/7/2014 6:46	13.0	20.4	$0
Possum Point CT6	U1	67731603 - BREAKER FAILURE TIMER TRIPPED	2.72	2.72	1/8/2014 12:05	1/8/2014 14:48	13.0	35.3	$0
Possum Point CT6	U1	67731945 - LINE BREAKERS TRIPPED	207.52	207.52	1/8/2014 23:44	1/17/2014 15:15	13.0	2,697.7	$1
Possum Point CT6	MO	67731945 - 13.8 KV CABLE REPLACEMENT TO UNIT 4 AND STATION SERVICE TRANSFORMER	51.87	51.87	2/6/2014 12:00	2/8/2014 15:52	12.0	622.4	$0
Possum Point CT6	MO	67755100 - NERC BLACK START TESTING	1.88	1.88	4/17/2014 7:00	4/17/2014 8:53	12.0	22.6	$0
Possum Point CT6	MO	67499889 - PROTECTION RELAY TESTING	74.07	74.07	5/19/2014 7:00	5/22/2014 9:04	12.0	888.8	$0
Possum Point CT6	U1	67818024 - Unit tripped after generator breaker had been CLOSED but computer was showing breaker opening and closing	2.18	2.18	8/7/2014 9:37	8/7/2014 11:48	12.0	26.2	$0
Possum Point CT6	MO	67818024 - generator breaker maintenance	5.72	5.72	9/9/2014 7:00	9/9/2014 12:43	12.0	68.6	$1
Remington CT1	U1	Water injection filter pegged. Only 1 filter per unit.	0.72	0.72	1/7/2014 16:06	1/7/2014 16:49	154.7	110.9	$2
Remington CT1	U1	Media converter failed preventing communication with ECOMAX.	0.50	0.50	1/22/2014 7:31	1/22/2014 8:01	154.7	77.4	$1
Remington CT1	SF	Loss of flame on start up - 1 minute after initial fire	6.72	6.72	2/27/2014 5:11	2/27/2014 11:54	154.7	1,039.1	$0
Remington CT1	U1	Tripped due to compressor bleed valve sticking	0.20	0.20	3/4/2014 5:58	3/4/2014 6:10	154.7	30.9	$0
Remington CT1	U1	Gas sensing line at header leaking	1.88	1.88	3/17/2014 16:10	3/17/2014 18:03	154.7	291.3	$0
Remington CT1	PO	Boroscope Inspection/Inlet filter change out	206.63	206.63	3/22/2014 0:01	3/30/2014 14:39	154.7	31,966.1	$3
Remington CT1	MO	DC Integrity Test	5.83	5.83	5/16/2014 7:00	5/16/2014 12:50	153.0	892.4	$0
Remington CT1	MO	Gas Turbine Performance Testing	17.67	17.67	8/26/2014 0:01	8/26/2014 17:41	153.0	2,703.1	$0
Remington CT1	PO	Hot Gas Path Inspection	857.98	857.98	9/6/2014 0:00	10/11/2014 17:59	153.0	131,271.4	$1,348
Remington CT1	PO	Hot Gas Path Inspection	12.03	12.03	10/11/2014 22:18	10/12/2014 10:20	153.0	1,841.0	$0
Remington CT1	PO	Hot Gas Path Inspection	2.08	2.08	10/12/2014 19:11	10/12/2014 21:16	153.0	318.7	$0
Remington CT1	MO	Balance weight on turbine	42.98	42.98	10/22/2014 0:01	10/23/2014 19:00	153.0	6,576.4	$0
Remington CT1	MO	Controls upgrade	3.75	3.75	11/5/2014 8:00	11/5/2014 11:45	153.0	573.8	$0
Remington CT1	U1	NOX too high	0.50	0.50	12/3/2014 18:36	12/3/2014 19:06	153.0	76.5	$0
Remington CT2	U1	Water injection leak on can 13	2.40	2.40	1/3/2014 13:06	1/3/2014 15:30	151.7	364.1	$0
Remington CT2	U1	Water injection filter pegged with high differential pressure	1.55	1.55	1/7/2014 13:21	1/7/2014 14:54	151.7	235.1	$2
Remington CT2	SF	Unit did not make it to FSNL, exhaust spreads high, ambient air -4 degrees	3.92	3.92	3/4/2014 6:15	3/4/2014 10:10	151.7	594.2	$0
Remington CT2	PO	Boroscope Inspection/Inlet filter change out	206.63	206.63	3/22/2014 0:01	3/30/2014 14:39	151.7	31,346.2	$7
Remington CT2	MO	Water wash/ Rundown test/ Boroscope	23.95	23.95	5/6/2014 0:01	5/6/2014 23:58	151.0	3,616.5	$2
Remington CT2	U1	Lean blowout.	0.08	0.08	5/28/2014 18:29	5/28/2014 18:34	151.0	12.5	$0
Remington CT2	PO	Boroscope Inspection	18.52	18.52	9/9/2014 0:01	9/9/2014 18:32	151.0	2,796.1	$0

* Outage Type Key

U# = Unplanned Outage — NC = Non curtailing Event
MO = Maintenance Outage — ME = Extension of Maintenance Outage
PO = Planned Outage — PE = Extension of Planned Outage
SF = Start Failure — D# = Derates
PD = Planned Derating — DM = Maintenance Derate Extension

2014 Power Generation Outage Report
(Fossil & Hydro)

Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2014 Dates Start	2014 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Remington CT2	SF	Unit had a static start trip while trying to start.	9.72	9.72	10/15/2014 6:32	10/15/2014 16:15	151.0	1,467.3	$0
Remington CT2	PO	Controls upgrade	3.75	3.75	11/5/2014 8:00	11/5/2014 11:45	151.0	566.3	$0
Remington CT2	PO	Borescope Inspection- test on oil	225.87	225.87	11/12/2014 0:00	11/21/2014 9:52	151.0	34,105.9	$12
Remington CT2	PO	Borescope Inspection- test on oil	1.83	1.83	11/21/2014 10:23	11/21/2014 12:13	151.0	276.8	$0
Remington CT2	PO	Borescope Inspection	1.13	1.13	11/21/2014 14:30	11/21/2014 15:38	151.0	171.1	$0
Remington CT2	PO	Borescope Inspection	20.53	20.53	11/21/2014 17:13	11/22/2014 13:45	151.0	3,100.5	$0
Remington CT3	MO	Replace liquid fuel valves	39.68	39.68	1/3/2014 0:01	1/4/2014 15:42	152.3	6,043.7	$0
Remington CT3	U1	Lack of fuel	19.22	19.22	1/6/2014 0:01	1/6/2014 19:14	152.3	2,926.7	$0
Remington CT3	U1	Lack of fuel	60.15	60.15	1/6/2014 19:51	1/9/2014 8:00	152.3	9,160.8	$0
Remington CT3	MO	Remove Liquid Fuel Control Valve	3.25	3.25	1/12/2014 7:00	1/12/2014 10:15	152.3	495.0	$0
Remington CT3	U1	Lack of fuel	56.80	56.80	1/23/2014 0:02	1/25/2014 8:50	152.3	8,650.6	$0
Remington CT3	MO	Liquid Fuel Valve Install / Boroscope Inspection	8.50	8.50	2/3/2014 7:00	2/3/2014 15:30	152.3	1,294.6	$0
Remington CT3	MO	Test run complete, released back to MOC when reached turning gear	0.82	0.82	2/3/2014 16:56	2/3/2014 17:45	152.3	124.4	$0
Remington CT3	PO	Boroscope Inspection/Inlet filter change out	211.00	211.00	3/1/2014 0:00	3/9/2014 20:00	152.3	32,135.3	$83
Remington CT3	MO	Water wash/Rundown test/Borescope	20.38	20.38	5/7/2014 0:01	5/7/2014 20:24	151.0	3,077.8	$0
Remington CT3	PO	Boroscope Inspection	12.43	12.43	9/9/2014 0:01	9/9/2014 12:27	151.0	1,877.4	$0
Remington CT3	PO	Boroscope Inspection /Eddie Current Test	47.65	47.65	9/20/2014 0:01	9/21/2014 23:40	151.0	7,195.2	$0
Remington CT3	MO	Controls Upgrade	0.80	0.80	11/5/2014 11:45	11/5/2014 12:33	151.0	120.8	$0
Remington CT3	PO	Borescope Inspection	81.82	81.82	11/22/2014 0:01	11/25/2014 9:50	151.0	12,354.4	$6
Remington CT3	PO	Borescope Inspection - Test on oil	3.08	3.08	11/25/2014 10:17	11/25/2014 13:22	151.0	465.5	$0
Remington CT3	MO	Fuel Oil Valve Went Bad	3.93	3.93	11/25/2014 15:34	11/25/2014 19:30	151.0	593.9	$0
Remington CT4	MO	Replace liquid valves	39.68	39.68	1/3/2014 0:01	1/4/2014 15:42	154.0	6,111.2	$0
Remington CT4	U1	Water injection line @ can 14 had a leak	2.23	2.23	1/7/2014 11:25	1/7/2014 13:39	154.0	343.9	$0
Remington CT4	U1	Water injection leak	2.28	2.28	1/8/2014 15:06	1/8/2014 17:23	154.0	351.6	$0
Remington CT4	PO	Boroscope Inspection/Inlet filter change out	228.25	228.25	3/1/2014 0:00	3/10/2014 13:15	154.0	35,150.5	$78
Remington CT4	PO	Boroscope Inspection/Inlet filter change out	2.53	2.53	3/10/2014 17:10	3/10/2014 19:42	154.0	390.1	$0
Remington CT4	MO	Water wash/Rundown test/Borescope	20.05	20.05	5/15/2014 0:01	5/15/2014 20:04	151.0	3,027.6	$0
Remington CT4	MO	Gas Turbine Performance Testing	16.88	16.88	8/28/2014 0:01	8/28/2014 16:54	151.0	2,549.3	$0
Remington CT4	PO	Hot Gas Path Inspection	834.23	834.23	9/12/2014 0:01	10/16/2014 18:15	151.0	125,969.2	$1,157
Remington CT4	PO	Hot Gas Path Inspection	14.30	14.30	10/16/2014 21:17	10/17/2014 11:35	151.0	2,159.3	$0
Remington CT4	PO	Hot Gas Path Inspection	1.28	1.28	10/17/2014 19:33	10/17/2014 20:50	151.0	193.7	$0
Remington CT4	MO	Controls Upgrade	0.80	0.80	11/5/2014 11:45	11/5/2014 12:33	151.0	120.8	$0
Remington CT4	SF	Unit did not synch during start up/ Breaker tripped and would not reset	4.50	4.50	11/18/2014 17:39	11/18/2014 22:09	151.0	679.5	$0
Roanoke Rapids 1	U1	FO RR1 BLOWN GOVERNOR CONTROL FUSE	1.30	1.30	1/14/2014 7:52	1/14/2014 9:10	24.0	31.2	$0
Roanoke Rapids 1	U1	FO RR1 Unit Trip due to Clogged Governor Pilot Valve Filter	7.28	7.28	5/30/2014 1:18	5/30/2014 8:35	24.0	174.8	$0
Roanoke Rapids 1	U1	FO RR1 Unit Trip due to Governor Trip- Gate Driver Failure	0.68	0.68	5/31/2014 18:14	5/31/2014 18:55	24.0	16.4	$0
Roanoke Rapids 1	U1	FO RR1 Governor Critical Fault	19.17	19.17	6/8/2014 1:20	6/8/2014 20:30	24.0	460.0	$0
Roanoke Rapids 1	MO	MO Substation	31.83	31.83	6/10/2014 8:00	6/11/2014 15:50	24.0	764.0	$0
Roanoke Rapids 1	U1	Forced Outage RR Unit 1 Exciter Rotor and Stator rubbing	2,282.50	2,282.50	8/11/2014 14:00	11/14/2014 15:30	24.0	54,780.0	$266
Roanoke Rapids 2	MO	MO Substation Transformer Cooler Cleaning	31.83	31.83	6/10/2014 8:00	6/11/2014 15:50	24.0	764.0	$0
Roanoke Rapids 2	MO	MO for Black Start Testing	4.50	4.50	9/4/2014 7:00	9/4/2014 11:30	24.0	108.0	$0
Roanoke Rapids 2	MO	MO for Black Start Testing	5.00	5.00	9/12/2014 7:00	9/12/2014 12:00	24.0	120.0	$0
Roanoke Rapids 2	MO	MO for Black Start Testing	5.00	5.00	9/16/2014 7:00	9/16/2014 12:00	24.0	120.0	$0
Roanoke Rapids 2	MO	MO DC Integrity Testing	1.28	1.28	10/28/2014 8:01	10/28/2014 9:18	24.0	30.8	$0
Roanoke Rapids 3	MO	MO for Black Start Testing	3.92	3.92	9/4/2014 8:05	9/4/2014 12:00	24.0	94.0	$0
Roanoke Rapids 3	MO	MO for Back Start Testing	3.95	3.95	9/12/2014 8:03	9/12/2014 12:00	24.0	94.8	$0
Roanoke Rapids 3	MO	MO for Black Start Testing	4.98	4.98	9/16/2014 7:01	9/16/2014 12:00	24.0	119.6	$0
Roanoke Rapids 3	MO	MO DC Integrity Test	1.28	1.28	10/28/2014 8:01	10/28/2014 9:18	24.0	30.8	$0
Roanoke Rapids 4	U1	FO RR1 Air Cooler Leaking Water	7.83	7.83	6/17/2014 8:30	6/17/2014 16:20	23.0	180.2	$0
Roanoke Rapids 4	U1	RR4 FO Air Cooler Tube Leak	27.00	27.00	7/16/2014 12:00	7/17/2014 15:00	23.0	621.0	$0
Roanoke Rapids 4	SF	START FAILURE RR UNIT 4	0.42	0.42	8/5/2014 15:00	8/5/2014 15:25	23.0	9.6	$0
Roanoke Rapids 4	MO	MO For Black Start Testing	5.00	5.00	9/4/2014 7:00	9/4/2014 12:00	23.0	115.0	$0
Roanoke Rapids 4	MO	MO for Black Start Testing	5.00	5.00	9/12/2014 7:00	9/12/2014 12:00	23.0	115.0	$0
Roanoke Rapids 4	PO	RR4 Planned Outage for Cavitation Repairs	2,593.02	2,593.02	9/14/2014 23:59	1/6/2015 10:30	23.0	59,639.4	$399
Rosemary 1	D1	Frame 7EA CT tripped due to a failed 28 VDC control card to relay block 1. Before unit could start L45FTX fire control relay was also replaced.	10.43	7.33	1/6/2014 23:56	1/7/2014 10:22	115.9	1,209.2	$0
Rosemary 1	D1	The FR7 #10 combustion can fuel oil supply check valve was plugged with coke which did not allow full fuel flow.	86.12	10.96	1/7/2014 17:53	1/11/2014 8:00	21.0	1,808.5	$0
Rosemary 1	MO	Due to coke plugging the FR7 #10 fuel oil check valve, the #10 Fuel Nozzle was replaced as a preventative measure.	3.72	3.72	1/11/2014 8:00	1/11/2014 11:43	165.0	613.3	$0
Rosemary 1	PO	Planned Outage to Replace Turbine Control Systems	730.58	730.58	3/1/2014 0:01	3/31/2014 11:36	165.0	120,5[illegible]	$0

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2014 Power Generation Outage Report
(Fossil & Hydro)

Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2014 Dates Start	2014 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Rosemary 1	PO	Planned Outage to Replace Turbine Control Systems	2.73	2.73	3/31/2014 12:20	3/31/2014 15:04	165.0	450.9	$0
Rosemary 1	PO	Planned Outage to Replace Turbine Control Systems	0.60	0.60	3/31/2014 16:55	3/31/2014 17:31	165.0	99.0	$0
Rosemary 1	PO	Planned Outage to Replace Turbine Control Systems	39.50	39.50	3/31/2014 17:52	4/2/2014 9:22	165.0	6,517.5	$0
Rosemary 1	PO	Planned Outage to Replace Turbine Control Systems.	48.52	48.52	4/2/2014 9:27	4/4/2014 9:58	165.0	8,005.3	$0
Rosemary 1	PO	Planned Outage to replace Turbine Control Systems.	15.28	15.28	4/4/2014 16:41	4/5/2014 7:58	165.0	2,521.7	$0
Rosemary 1	PO	Planned Outage to Replace Turbine Control Systems.	67.40	67.40	4/5/2014 15:00	4/8/2014 10:24	165.0	11,121.0	$0
Rosemary 1	PO	Planned Outage to Replace Turbine Control Systems.	1.47	1.47	4/8/2014 10:26	4/8/2014 11:54	165.0	242.1	$0
Rosemary 1	PO	Planned Outage to Replace Turbine Control Systems	0.80	0.80	4/8/2014 12:32	4/8/2014 13:20	165.0	132.0	$0
Rosemary 1	PO	Planned Outage to Replace Turbine Control Systems.	0.65	0.65	4/8/2014 14:33	4/8/2014 15:12	165.0	107.3	$0
Rosemary 1	PO	Planned Outage to Replace Turbine Control Systems.	16.02	16.02	4/8/2014 17:56	4/9/2014 9:57	165.0	2,642.8	$0
Rosemary 1	PO	Planned Outage to Replace Turbine Control Systems.	45.75	45.75	4/9/2014 14:29	4/11/2014 12:14	165.0	7,548.8	$0
Rosemary 1	D4	6A3 Generator has 3 broken laminates on the J-Strap causing the rotor to be rewound.	1,186.93	312.53	4/23/2014 0:01	6/11/2014 10:57	55.0	65,281.3	$0
Rosemary 1	MO	Frame 7EA - Replaced 2 cracked transition pieces and combustion liners.	249.33	249.33	5/19/2014 7:00	5/29/2014 16:20	165.0	41,139.9	$14
Rosemary 1	D1	GTG1 Flame Out due to Motor Operated NOx water injection control valve was 100% open even though the control system demand and position indication was reading 0%.	6.18	4.87	6/16/2014 13:48	6/16/2014 19:59	130.0	803.8	$0
Rosemary 1	MO	Repaired tube leaks on both HRSGs.	10.20	10.20	7/31/2014 8:00	7/31/2014 18:12	165.0	1,683.0	$7
Rosemary 1	PO	Assorted maintenance including repairing leak by on several Station valves.	473.15	473.15	10/13/2014 0:01	11/1/2014 17:10	165.0	78,069.8	$175
Rosemary 1	MO	Replaced FR6 Fuel Nozzles and replaced FAC damaged pipe elbow.	57.00	57.00	11/24/2014 7:00	11/26/2014 16:00	165.0	9,405.0	$4
Yorktown 1	U1	Order #67728340. Automatic trip. 32-1 anti-motoring relay activated	41.35	41.35	1/1/2014 16:22	1/3/2014 9:43	159.0	6,574.7	$7
Yorktown 1	D1	Poor fuel quality - Feeder speed limitations, opacity	65.50	3.30	1/6/2014 14:00	1/9/2014 7:30	8.0	524.0	$0
Yorktown 1	D1	High opacity, ESP fouled, poor fuel quality, high ash and sulfur content	85.50	12.91	1/16/2014 6:31	1/19/2014 20:01	24.0	2,052.0	$0
Yorktown 1	D1	Feeder speed limits have been reached. Poor fuel quality - wet/low BTU	71.67	3.55	2/1/2014 5:50	2/4/2014 5:30	11.0	788.3	$0
Yorktown 1	D1	Reducing load. High back pressure. Reversing flows.	35.48	12.05	2/1/2014 13:05	2/3/2014 0:34	54.0	1,916.1	$0
Yorktown 1	MO	Unit shut down to go inside waterboxes and clear them of all debris.	20.42	20.42	2/3/2014 0:34	2/3/2014 20:59	159.0	3,246.3	$0
Yorktown 1	D1	Reducing load to backwash	1.82	0.63	2/4/2014 12:46	2/4/2014 14:35	55.0	99.9	$0
Yorktown 1	D1	High back pressure. Reducing load to keep in control and backwash.	6.12	0.96	2/5/2014 6:43	2/5/2014 12:50	25.0	152.9	$0
Yorktown 1	D4	Reducing load to backwash	2.35	0.77	2/6/2014 1:14	2/6/2014 3:35	52.0	122.2	$0
Yorktown 1	D4	Reducing load to backwash.	2.63	0.85	2/7/2014 0:25	2/7/2014 3:03	51.0	134.3	$0
Yorktown 1	D1	Order #67744297. Reducing load to backwash and clean 1A trash racks.	13.00	2.70	2/7/2014 13:02	2/8/2014 2:02	33.0	429.0	$16
Yorktown 1	D1	Orders #67744297 and 67744298. Reducing load to backwash and clean 1A and 1B trash racks.	28.85	2.90	2/8/2014 9:02	2/9/2014 13:53	16.0	461.6	$1
Yorktown 1	D4	Reducing load to backwash.	2.60	0.87	2/9/2014 23:57	2/10/2014 2:33	53.0	137.8	$0
Yorktown 1	D4	Reducing load to backwash.	1.98	0.69	2/11/2014 0:05	2/11/2014 2:04	55.0	109.1	$0
Yorktown 1	D4	Scheduled backwash	2.00	0.93	2/16/2014 0:00	2/16/2014 2:00	74.0	148.0	$0
Yorktown 1	D1	Wet coal. Limited by mill suctions.	222.07	9.78	2/16/2014 10:08	2/25/2014 16:12	7.0	1,554.5	$0
Yorktown 1	D1	Order #67743985, High opacity. B3 TR has low voltage and high current	600.67	13.48	2/25/2014 22:19	3/22/2014 23:59	22.0	13,214.7	$25
Yorktown 1	D4	Scheduled backwash	2.00	0.59	2/26/2014 0:00	2/26/2014 2:00	47.0	94.0	$0
Yorktown 1	D1	Backwashing took longer than expected. OPS power off rapping at the same time.	2.38	0.71	2/26/2014 2:00	2/26/2014 4:23	47.0	112.0	$0
Yorktown 1	U1	Order #67752522. Unit taken off line, lost station air pressure.	0.27	0.27	3/1/2014 23:44	3/2/2014 0:00	159.0	42.5	$5
Yorktown 1	PO	Spring outage, annual ESP inspection required Order #67730907	502.98	502.98	3/2/2014 0:00	3/22/2014 23:59	159.0	79,974.3	$164
Yorktown 1	PE	The station needed to complete post maintenance testing	24.00	24.00	3/22/2014 23:59	3/23/2014 23:59	159.0	3,816.0	$0
Yorktown 1	U1	Order 67760997. 1C BCW motor failed. 1A BCW pump is unavailable.	144.90	144.90	3/23/2014 23:59	3/30/2014 0:53	159.0	23,039.1	$20
Yorktown 1	U1	Order #67763623, 1C BCW motor tripped during start C" phase overcurrent"	134.33	134.33	3/30/2014 20:55	4/5/2014 11:15	159.0	21,358.9	$4
Yorktown 1	D1	Order #67768172. 'D' Exh fan is vibrating and the shaft has excessive axial movement	50.72	10.80	4/7/2014 12:55	4/9/2014 15:38	44.0	2,231.5	$0
Yorktown 1	U1	B CENTAC AC tripped due to starter feedback trip. Rental AC would not start.	11.70	11.70	4/8/2014 11:06	4/8/2014 22:48	159.0	1,860.3	$4
Yorktown 1	D1	Order #67768872. A FD fan motor has a dead ground.	13.78	2.60	4/8/2014 22:48	4/9/2014 12:35	30.0	413.5	$4
Yorktown 1	D1	Order #67769520. Fire at A ID fan IB bearing. Excessive vibration.	24.40	1.12	4/11/2014 8:28	4/12/2014 8:52	74.0	1,805.6	$4
Yorktown 1	U1	Directly related to ASR event #32, A ID fan was secured and stack opacity was excessive	22.00	22.00	4/11/2014 10:52	4/12/2014 8:52	159.0	3,498.0	$0
Yorktown 1	D1	Order #67773605 1B Hot air damper controller issue. Coal mill secured	3.50	0.93	4/23/2014 5:30	4/23/2014 9:00	42.0	147.0	$0
Yorktown 1	U1	Order #67776365 Econ tube leaks	80.95	80.95	4/30/2014 4:30	5/3/2014 13:27	159.0	12,871.1	$30
Yorktown 1	D4	Order #67783778. Exh fan seal leak. Combustible dust issue. Mill secured.	16.22	3.98	5/23/2014 1:55	5/23/2014 18:08	39.0	632.5	$1
Yorktown 1	D1	High opacity	46.23	4.07	6/2/2014 17:31	6/4/2014 15:45	14.0	647.3	$0
Yorktown 1	MO	Order #67791083, boiler tube leak (superheater)	57.22	57.22	6/6/2014 0:55	6/8/2014 10:08	159.0	9,097.5	$17
Yorktown 1	D1	Order #67798745 ID fan saturation	637.60	13.83	6/26/2014 7:09	7/22/2014 20:45	8.0	5,100.8	$5
Yorktown 1	U1	Order # 67799090 Boiler tube leak	102.48	102.48	6/27/2014 16:23	7/1/2014 22:52	159.0	16,294.8	$16
Yorktown 1	MO	Failed PM test, came off to inspect the unit and repair any defects/contributors (U1U2JULY2014MO)	260.35	260.35	7/12/2014 0:24	7/22/2014 20:45	159.0	41,395.7	$126
Yorktown 1	MO	Failed PM test - performing boiler/ESP inspections, optimization and repairs (U1U2MOPM)	552.78	552.78	8/8/2014 23:12	8/31/2014 23:59	159.0	87,892.5	$238
Yorktown 1	U1	Order #67825307 1B stator oil pump oil leak	5.10	5.10	9/2/2014 4:54	9/2/2014 10:00	159.0	810.9	$3
Yorktown 1	U1	Loss of station air - removed unit from service	10.07	10.07	9/3/2014 12:38	9/3/2014 22:42	159.0	1,600.7	$0
Yorktown 1	MO	PM test complete - entered outage until final results are in.	161.37	161.37	9/5/2014 22:58	9/12/2014 16:20	159.0	25,657.8	$0

* Outage Type Key

U# = Unplanned Outage	NC = Non curtailing Event
MO = Maintenance Outage	ME = Extension of Maintenance Outage
PO = Planned Outage	PE = Extension of Planned Outage
SF = Start Failure	D# = Derates
PD = Planned Derating	DM = Maintenance Derate Extension

2014 Power Generation Outage Report

(Fossil & Hydro)

Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2014 Dates Start	2014 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Yorktown 1	MO	(WO# 67845177) Economizer Tube Leak	61.58	61.58	10/20/2014 7:00	10/22/2014 20:35	159.0	9,791.7	$2
Yorktown 1	PO	WO#67798271 Wet magnetic inspection and repairs of economizer inlet header.	525.77	525.77	10/25/2014 0:01	11/15/2014 20:47	159.0	83,597.0	$19
Yorktown 1	D1	WO# 67845175 Travelling Screen 1-A would not rotate.	20.30	2.43	11/15/2014 20:47	11/16/2014 17:05	19.0	385.7	$6
Yorktown 1	D1	Feeders plugged up from wet coal left sitting in bunkers during outage.	15.48	4.67	11/16/2014 8:01	11/16/2014 23:30	48.0	743.2	$0
Yorktown 1	D1	heavy rains caused wet coal to be loaded into bunkers plugging feeders	9.50	1.14	11/28/2014 7:30	11/28/2014 17:00	19.0	180.5	$0
Yorktown 1	D1	heavy rains caused wet coal to be loaded into bunkers plugging feeders	2.43	0.70	11/28/2014 13:39	11/28/2014 16:05	46.0	111.9	$0
Yorktown 1	D1	heavy rains caused wet coal to be loaded into bunkers, causing feeders to plug.	54.98	13.83	11/28/2014 17:00	11/30/2014 23:59	40.0	2,199.3	$0
Yorktown 1	D4	(WO # 67856517) First Point Heater Head Leak Repair	33.88	14.70	12/8/2014 7:00	12/9/2014 16:53	69.0	2,337.9	$2
Yorktown 1	MO	(WO# 67865999) Economizer Tube Leak	37.50	37.50	12/18/2014 7:00	12/19/2014 20:30	159.0	5,962.5	$2
Yorktown 2	D1	Wet coal - feeder speed limitations have been reached	11.10	0.61	1/3/2014 6:54	1/3/2014 18:00	9.0	99.9	$0
Yorktown 2	D1	Poor fuel quality, wet coal, low BTU, high ash content. Extra steam system demand/flow as U3 was on line.	95.20	2.90	1/6/2014 8:18	1/10/2014 7:30	5.0	476.0	$0
Yorktown 2	D1	Poor coal quality - wet, high ash content, low BTU.	72.43	3.98	1/13/2014 7:00	1/16/2014 7:28	9.0	651.9	$0
Yorktown 2	D1	2B exhauster door leak - secured mill for repairs	1.18	0.39	1/21/2014 10:09	1/21/2014 11:20	54.0	63.9	$0
Yorktown 2	D1	High back pressure, reducing load while troubleshooting	3.50	1.69	1/31/2014 2:00	1/31/2014 5:30	79.0	276.5	$0
Yorktown 2	U1	High back pressure. Unit brought off line to perform waterbox condenser cleaning	13.23	13.23	1/31/2014 5:30	1/31/2014 18:44	164.0	2,170.2	$0
Yorktown 2	D1	High back pressure. Reducing load to backwash.	11.45	3.42	2/1/2014 5:50	2/1/2014 17:17	49.0	561.1	$0
Yorktown 2	D1	High back pressure. Reducing load for backwash.	9.88	4.46	2/2/2014 4:58	2/2/2014 14:51	74.0	731.3	$0
Yorktown 2	D1	Reducing load to backwash.	1.77	0.64	2/4/2014 11:00	2/4/2014 12:46	59.0	104.3	$0
Yorktown 2	D1	Reducing load to backwash.	2.52	0.95	2/5/2014 1:26	2/5/2014 3:57	62.0	156.1	$0
Yorktown 2	D1	Reducing load, high back pressure. Back washing.	4.07	1.14	2/5/2014 11:41	2/5/2014 15:45	46.0	187.1	$0
Yorktown 2	D1	Reducing load, high back pressure. Back washing.	11.20	4.64	2/6/2014 9:54	2/6/2014 21:06	68.0	761.6	$0
Yorktown 2	U1	Off line. Cleaning water boxes. Checking all circulating water intake screens	16.77	16.77	2/6/2014 21:06	2/7/2014 13:52	164.0	2,749.8	$0
Yorktown 2	D1	Order #67744951. 2C mill coal pipe leaking, OPS took mill OOS.	13.50	3.62	2/7/2014 22:15	2/8/2014 11:45	44.0	594.0	$1
Yorktown 2	D1	Order #67744951. 2C mill coal pipe leaking, OPS took mill OOS.	4.92	1.32	2/8/2014 13:19	2/8/2014 18:14	44.0	216.3	$0
Yorktown 2	D4	Reducing load to backwash.	2.03	0.76	2/9/2014 2:55	2/9/2014 4:57	61.0	124.0	$0
Yorktown 2	D1	Order #67743900. Reducing load to backwash and clean 2A trash racks.	5.47	1.07	2/9/2014 13:32	2/9/2014 19:00	32.0	174.9	$1
Yorktown 2	D4	Order #67743899. Reducing load to backwash and clean 2B trash racks.	1.83	0.48	2/10/2014 2:34	2/10/2014 4:24	43.0	78.8	$0
Yorktown 2	D1	CRO reducing load to place 2B intake in service.	3.10	0.72	2/10/2014 14:14	2/10/2014 17:20	38.0	117.8	$0
Yorktown 2	D4	Reducing load for backwash.	1.90	0.64	2/11/2014 3:00	2/11/2014 4:54	55.0	104.5	$0
Yorktown 2	D1	2D2 feeder stopped.	0.20	0.01	2/12/2014 13:56	2/12/2014 14:08	10.0	2.0	$0
Yorktown 2	D1	Wet coal. Limited by mill suction.	284.82	13.89	2/15/2014 20:18	2/27/2014 17:07	8.0	2,278.5	$0
Yorktown 2	D4	Scheduled backwash	2.00	0.87	2/16/2014 2:00	2/16/2014 4:00	71.0	142.0	$0
Yorktown 2	D4	Order #67746182. D2 feeder coming loose and mill needs inspection.	12.57	3.91	2/18/2014 4:30	2/18/2014 17:04	51.0	640.9	$2
Yorktown 2	D4	Order #67745680, B2 feeder maint and mill inspection	11.18	3.48	2/19/2014 4:30	2/19/2014 15:41	51.0	570.3	$1
Yorktown 2	U1	Order #67752522. Unit taken off line, lost station air pressure.	17.00	17.00	3/1/2014 23:44	3/2/2014 16:44	164.0	2,788.0	$4
Yorktown 2	D1	Poor fuel quality - wet coal	152.48	9.30	3/3/2014 2:31	3/9/2014 12:00	10.0	1,524.8	
Yorktown 2	D1	Order #67755712. A FD fan motor failed and B" phase shorted"	578.12	93.84	3/7/2014 3:20	3/31/2014 6:27	82.0	47,405.6	$76
Yorktown 2	MO	Order #67755712 Opacity increasing. Took unit off line to start outage early.	24.00	24.00	3/15/2014 0:01	3/16/2014 0:01	164.0	3,936.0	$0
Yorktown 2	PO	Planned outage - Annual inspections, tune up for summer run	490.32	490.32	3/16/2014 0:01	4/5/2014 10:20	164.0	80,412.0	$335
Yorktown 2	SF	CRO was unable to sync unit - exciter field contactor problem	7.57	7.57	4/7/2014 7:41	4/7/2014 15:15	164.0	1,241.0	$0
Yorktown 2	U1	Order #66768872. B CENTAC AC tripped. Air pressure dropped. Unit removed from service.	7.47	7.47	4/8/2014 11:06	4/8/2014 18:34	164.0	1,224.6	$0
Yorktown 2	D4	Order #67771532. 1A2 feeder is mechanically bound	16.90	3.20	4/21/2014 5:00	4/21/2014 21:54	31.0	523.9	$2
Yorktown 2	D1	Feeder speed limitations have been reached	107.97	3.95	5/4/2014 21:02	5/9/2014 9:00	6.0	647.8	$0
Yorktown 2	D4	Order #67777078. This mill has a rub, inspecting for defects.	261.45	52.61	5/6/2014 5:58	5/17/2014 3:25	33.0	8,627.9	$0
Yorktown 2	U1	Turbine tripped during valve testing.	5.42	5.42	5/24/2014 3:10	5/24/2014 8:35	164.0	888.4	$0
Yorktown 2	MO	Orders (several) ESP hopper door leaks, Valve piping replacements, other repairs.	41.08	41.08	5/29/2014 1:35	5/30/2014 18:40	164.0	6,737.6	$0
Yorktown 2	MO	Order 67788544. Boiler tube leak - 2 total	72.80	72.80	6/1/2014 7:00	6/4/2014 7:48	164.0	11,939.2	$13
Yorktown 2	D1	Order #67794495 Exhauster fan coal leak at the seal	8.03	1.91	6/21/2014 5:00	6/21/2014 13:02	39.0	313.3	$2
Yorktown 2	D1	67798788 - D-conveyor motor failure prevents filling of coal bunkers. Curtailment of unit to conserve fuel.	36.00	15.15	6/27/2014 18:21	6/29/2014 6:21	69.0	2,484.0	$32
Yorktown 2	D1	WO# 67798788 Unit curtailed to conserve fuel as unit was in jeopardy of coming off line due to low bunker levels. Co-fired with #2 oil. Both motors on D coal conveyor belt went to ground.	3.48	2.21	6/29/2014 6:21	6/29/2014 9:50	104.0	362.2	$0
Yorktown 2	D1	WO#67798788 Unit curtailed to conserve fuel while bunkers were filled to a level that would support full load following replacement of D-conveyor belt motor	0.80	0.36	6/29/2014 9:50	6/29/2014 10:38	74.0	59.2	$0
Yorktown 2	MO	Failed PM test, came off to inspect the unit and repair any defects/contributors	93.37	93.37	7/12/2014 2:24	7/15/2014 23:46	164.0	15,312.2	$0
Yorktown 2	MO	Failed PM test - performing boiler/ESP inspections, optimization and repairs	553.55	553.55	8/8/2014 22:26	8/31/2014 23:59	164.0	90,782.2	$0
Yorktown 2	U1	Flame scanners were not installed for unit operations	5.32	5.32	9/1/2014 1:01	9/1/2014 6:20	164.0	872.0	$0
Yorktown 2	U1	Loss of station air - removed unit from service	17.72	17.72	9/3/2014 12:38	9/4/2014 6:21	164.0	2,905.6	$0
Yorktown 2	MO	PM test complete - entered outage until final results are in.	160.88	160.88	9/5/2014 23:27	9/12/2014 16:20	164.0	26,384.8	$0
Yorktown 2	MO	WO#67838561 Replace Cold End baskets on both air pre-heaters.	120.00	120.00	11/3/2014 0:01	11/8/2014 0:01	164.0	19,680.0	$0

* Outage Type Key

U# = Unplanned Outage
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PD = Planned Derating
NC = Non curtailing Event
ME = Extension of Maintenance Outage
PE = Extension of Planned Outage
D# = Derates
DM = Maintenance Derate Extension

2014 Power Generation Outage Report
(Fossil & Hydro)

Station/Unit	Outage Type*	Work Scope	Duration (Hours)	Duration (EQ HRS)	2014 Dates Start	2014 Dates End	Reduction (AVG MW)	Loss (MWH)	O&M Spend ($ in 000's)
Yorktown 2	PO	WO# 67823292 & 67823595 Throttle Valve rebuilds and APH cold end basket replacements	519.13	519.13	11/8/2014 0:01	11/29/2014 15:09	164.0	85,137.8	$922
Yorktown 2	U1	Unit trip - wet coal, unstable support fuel, MFT flame votes	9.07	9.07	12/3/2014 8:01	12/3/2014 17:05	164.0	1,487.0	$0
Yorktown 3	D1	Chemistry hold - Silica levels are high	76.87	3.30	1/6/2014 1:32	1/9/2014 6:24	33.9	2,605.8	$0
Yorktown 3	MO	Order #67731715 Maint outage boiler tube leak, lower waterwall	34.58	34.58	1/14/2014 7:00	1/15/2014 17:35	788.9	27,282.5	$6
Yorktown 3	D1	Chemistry hold - Silica levels are high	28.13	4.95	1/20/2014 4:00	1/21/2014 8:08	138.9	3,907.7	$0
Yorktown 3	U1	Unit tripped with loss of power to the Burner Management System	31.40	31.40	1/22/2014 4:36	1/23/2014 12:00	788.9	24,771.5	$0
Yorktown 3	SF	#2 fuel oil system problems	5.45	5.45	1/23/2014 12:00	1/23/2014 17:27	788.9	4,299.5	$0
Yorktown 3	D1	Chemistry hold - Silica levels are high.	13.13	1.48	1/23/2014 17:27	1/24/2014 6:35	88.9	1,167.5	$0
Yorktown 3	U1	Unit 3 tripped due to low stator cooling flow	24.42	24.42	1/24/2014 8:35	1/25/2014 9:00	788.9	19,262.6	$0
Yorktown 3	MO	Boiler tube leak (order #67738140) in dead air space	9.98	9.98	1/25/2014 9:00	1/25/2014 18:59	788.9	7,875.6	$1
Yorktown 3	D1	stator low flow alarm limit activated at 765net. limited load to this value	99.93	2.52	1/27/2014 7:14	1/31/2014 11:10	23.9	2,388.4	$0
Yorktown 3	U1	Tripped on high drum level	1.18	1.18	1/27/2014 7:14	1/27/2014 8:25	788.9	933.3	$0
Yorktown 3	SF	Secured from start up to repair blow down tank weld failure (order #67739136)	15.58	15.58	1/27/2014 8:25	1/28/2014 0:00	788.9	12,293.4	$0
Yorktown 3	MO	Several boiler tube leaks. Order #67740468, 67738140, 67739701, 67740469 and 67742114	155.38	155.38	2/1/2014 7:00	2/7/2014 18:23	788.9	122,581.6	$28
Yorktown 3	PO	Planned outage - Annual Inspections, tune up for summer run	1,679.97	1,679.97	3/16/2014 0:01	5/24/2014 23:59	788.9	1,325,326.0	$1,924
Yorktown 3	PE	Several contributors caused the need of this planned outage extension.	447.08	447.08	5/24/2014 23:59	6/12/2014 15:04	788.9	352,703.8	$0
Yorktown 3	D1	Failed capacity test	4,392.97	26.19	6/1/2014 0:01	11/30/2014 23:59	16.6	72,923.3	$0
Yorktown 3	D4	Order #67646552 3A FD fan motor unavailable	475.52	206.10	6/12/2014 15:04	7/2/2014 10:35	422.3	200,810.8	$0
Yorktown 3	MO	Order #67787312, EHC system fluid contamination, EHC piping leak 67785748	90.50	90.50	6/16/2014 7:00	6/20/2014 1:30	788.9	71,395.5	$574
Yorktown 3	MO	Failure of C & D boiler circ. water pumps.	277.32	277.32	7/23/2014 0:01	8/3/2014 13:20	788.9	218,775.4	$0
Yorktown 3	D1	3B and 3C BCW motors are unavailable Orders #67785736 and 67810233	137.67	49.26	8/3/2014 13:20	8/9/2014 7:00	282.3	38,863.4	$0
Yorktown 3	MO	Orders #67785736 and 67810233. 3B and 3C BCW motors are installed.	229.50	229.50	8/9/2014 7:00	8/18/2014 20:30	788.9	181,052.6	$0
Yorktown 3	SF	Primary (Order #67820852) - B main transformer alarm, secondary (Order #67820860) - HO reboiler leak.	28.05	28.05	8/19/2014 16:00	8/20/2014 20:03	788.9	22,128.6	$0
Yorktown 3	U1	Unit trip (no Order) low BCW differential pressure	6.63	6.63	8/21/2014 6:27	8/21/2014 13:05	788.9	5,232.8	$0
Yorktown 3	MO	Back pressure issues last time on line - entered MO to set up for capacity test	52.43	52.43	8/23/2014 3:24	8/25/2014 7:50	788.9	41,364.4	$0
Yorktown 3	PO	Planned Outage - Order #67832946, BMS upgrades, corner work, tube replacements	2,400.97	2,400.97	9/1/2014 0:01	12/9/2014 23:59	788.9	1,894,122.9	$5,592
Yorktown 3	PE	Outage Extension - Order #67832946, ignitor hardware shipment delay	209.87	209.87	12/9/2014 23:59	12/18/2014 17:51	788.9	165,564.1	$0
Yorktown 3	PE	Post outage - Functional testing.	313.77	313.77	12/18/2014 17:51	12/31/2014 19:37	788.9	247,530.8	$0
Yorktown 3	D4	Post outage - functional testing while on line	4.38	0.09	12/31/2014 19:37	1/2/2015 1:10	16.9	74.1	$0

2014 Power Generation Performance Statistics (Fossil & Hydro)

Unit	Heat Rate (BTU/kWh)	Equivalent Availability	EFOR	Capacity Factor
Bath County 1	-	89.99	1.37	15.05
Bath County 2	-	79.44	2.47	18.10
Bath County 3	-	74.49	-	17.02
Bath County 4	-	80.32	2.93	14.41
Bath County 5	-	73.42	7.38	16.91
Bath County 6	-	69.15	7.79	13.03
Bellemeade 1	8,983	69.94	7.44	10.77
Bremo 3	12,156	64.86	1.77	30.48
Bremo 4	10,603	53.28	1.05	12.78
Chesterfield 3	12,014	80.73	48.73	12.83
Chesterfield 4	10,606	92.05	4.63	67.70
Chesterfield 5	10,183	76.53	4.10	63.80
Chesterfield 6	10,017	73.39	2.09	59.13
Chesterfield 7	7,526	79.10	6.01	78.39
Chesterfield 8	7,159	80.15	7.19	82.27
Clover 1	10,036	93.13	4.42	80.46
Clover 2	9,994	80.14	1.68	67.30
Chesapeake 1	10,392	91.07	13.87	22.52
Chesapeake 2	10,736	84.10	12.45	20.71
Chesapeake 3	11,662	82.64	11.04	37.74
Chesapeake 4	11,129	90.11	10.43	29.46
Chesapeake CT1	15,047	95.93	87.56	0.31
Chesapeake CT2	15,464	98.16	69.53	0.07
Chesapeake CT4	15,439	86.21	99.07	0.13
Chesapeake CT6	16,136	98.15	64.26	0.10
Cushaw 1	-	52.30	47.60	70.72
Darbytown CT1	12,236	87.81	34.25	1.61
Darbytown CT2	12,360	93.05	41.85	1.56
Darbytown CT3	12,300	94.43	7.46	1.67
Darbytown CT4	12,233	95.20	38.78	1.60
Elizabeth River 1	11,893	72.13	6.87	1.55
Elizabeth River 2	11,908	63.88	57.04	1.22
Elizabeth River 3	11,394	81.51	37.60	0.75
Gaston 1	-	97.50	9.86	14.37
Gaston 2	-	99.84	0.20	18.64
Gaston 3	-	93.04	7.76	16.43
Gaston 4	-	73.35	1.42	14.76
Gravel Neck CT1	17,336	87.09	96.81	0.09
Gravel Neck CT2	16,851	88.94	93.50	0.05
Gravel Neck CT3	12,471	94.02	39.91	1.26
Gravel Neck CT4	12,504	95.84	5.35	2.24
Gravel Neck CT5	12,783	95.36	10.62	2.06
Gravel Neck CT6	12,307	97.29	14.35	1.46
Gordonsville 1	8,568	73.84	2.79	21.74
Gordonsville 2	8,434	85.49	1.87	44.34
Low Moor CT1	15,855	85.15	-	0.50
Low Moor CT2	15,949	82.91	88.49	0.32
Low Moor CT3	15,607	85.43	18.29	0.50
Low Moor CT4	15,295	85.43	18.88	0.47
Ladysmith CT1	10,589	95.55	0.35	14.18
Ladysmith CT2	10,321	95.28	0.88	12.83
Ladysmith CT3	10,615	89.55	38.85	7.79
Ladysmith CT4	10,480	93.55	4.11	9.72
Ladysmith CT5	10,482	91.53	8.92	10.65
Mecklenburg 1	12,113	94.56	1.34	39.28
Mecklenburg 2	12,205	91.26	1.59	35.95
Mt. Storm 1	9,838	91.07	2.70	76.21
Mt. Storm 2	9,939	73.42	3.83	59.87
Mt. Storm 3	10,400	82.44	5.50	70.71
Mt. Storm CT1	14,876	92.15	92.29	0.13
Northern Neck CT1	15,767	99.06	37.09	0.28
Northern Neck CT2	16,079	96.48	96.43	0.14
Northern Neck CT3	15,890	99.28	68.40	0.41
Northern Neck CT4	15,744	99.89	8.06	0.44
Possum Point 3	12,264	71.58	70.84	0.97
Possum Point 4	12,169	58.50	48.75	2.17
Possum Point 5	10,247	29.52	18.42	2.83
Possum Point 6	7,343	83.85	3.26	69.48
Possum Point CT1	15,122	98.93	23.59	0.63
Possum Point CT2	15,114	98.93	23.57	0.65
Possum Point CT3	15,119	98.81	23.64	0.62
Possum Point CT4	15,094	89.95	95.48	0.54
Possum Point CT5	15,119	96.14	84.12	0.65
Possum Point CT6	15,113	96.03	84.67	0.64
Pittsylvania 1	16,587	91.61	2.30	44.32
Remington CT1	10,539	86.76	1.37	8.91
Remington CT2	10,805	94.07	2.40	8.43
Remington CT3	10,708	93.50	16.02	8.26
Remington CT4	10,663	86.68	1.31	8.05
Rosemary 1	9,447	76.05	4.40	4.55
Roanoke Rapids 1	-	73.26	26.93	50.61
Roanoke Rapids 2	-	99.46	-	31.80
Roanoke Rapids 3	-	99.84	-	24.96
Roanoke Rapids 4	-	69.88	1.03	35.62
Yorktown 1	10,598	66.90	16.72	30.64
Yorktown 2	10,440	72.46	6.83	33.50
Yorktown 3	10,426	27.99	38.86	2.31

2013 VA Nuclear Outage Report

Station/Unit	Outage Type*	Work Scope	Outage days (2013 portion)	Derate Hours (2013 portion)	2013 Dates Start	2013 Dates End	Avg Mws Loss/Hr for Derates		O&M Spend ($ in millions)
North Anna 1	PO	Shutdown for Refueling	32.74		9/8/13	10/10/13			$ 30.7
North Anna 1	DR	Ramp up from refueling		19.10	10/10//13	10/11/13	633.2		
North Anna 1	DR	CW Temperature Fluctuation due to seasonal changes		1.00	7/21/13	7/21/13	0.1		
North Anna 1	DR	CW Temperature Fluctuation due to seasonal changes		1.00	7/24/13	7/24/13	0.2		
North Anna 1	DR	Ramp down to 98.5% due to failure of 1C Turbine Gov. valve feedback arm		77.73	6/21/13	6/24/13	13.3		
North Anna 1	FO	Reactor first out Turbine Trip Reactor Trip; Station service transformer shorting screws left following maintenance.	2.17		10/11/13	10/13/13			$ 0.3
North Anna 1	DR	Ramp up from transformer repair		55.13	10/13/13	10/16/13	1.2		
North Anna 2	DR	Ramp down for refueling		4.38	4/6/13	4/7/13	330.7		
North Anna 2	PO	Shutdown for Refueling	32.48		4/7/13	5/9/13			$ 33
North Anna 2	DR	Ramp up from Refueling		18.12	5/9/13	5/10/13	721.4		
North Anna 2	FO	Trip due to Main FW Pump discharge MOV automatic closure	2.26		5/28/13	5/30/13			$ -
North Anna 2	DR	Ramping up following repair of Main FW Pump discharge MOV		20.65	5/30/13	5/31/13	369.7		
North Anna 2	DR	High reserve station power use following Unit 1 ramp down		10.00	9/8/13	9/8/13	2.9		
North Anna 2	DR	CW temperature fluctuation due to seasonal changes		217.00	7/17/13	7/26/13	0.8		
North Anna 2	DR	Reduce to 93% for Turbine Valve Freedom Testing		7.18	12/18/13	12/18/13	22.7		
North Anna 2	FO	Trip due to high vibration from #9 bearing	11.83		5/10/13	5/22/13			$ 0.7
North Anna 2	DR	Ramping up following #9 bearing replacement		157.00	5/22/13	5/28/13	267.1		
Surry 1	DR	U1RFO25 Ramp for Scheduled Refueling Outage		4.58	10/19/13	10/20/13	488.0		
Surry 1	PO	U1RFO25 - Scheduled Refueling Outage	32.53		10/20/13	11/21/13			$ 28.7
Surry 1	DR	Ramp Up to 100% from RFO		58.65	11/21/13	11/23/13	401.0		
Surry 1	DR	U1 End of Life Coastdown		235.95	10/10/13	10/19/13	37.0		

** PO = Planned Outage MO = Maintenance Outage FO = Forced Outage DR = Derate*

Data Source: PowerGads

Note: All references to Avg. Available Capacity less than NDC hidden.

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2013 Nuclear Performance Statistics

Station	Unit #	Heat Rate (BTU/kWh)	Equiv. Avail.	EFOR	Cap Factor
North Anna	1	10,293.51	90.28	0.67	92.57
North Anna	2	10,352.00	86.46	4.90	88.60
Surry	1	10,234.76	90.62	0.00	93.13
Surry	2	10,206.72	100.00	0.00	103.10

Data Sources:

1. EA, EFOR, CF - ASR Summary Statistical Report
2 HEAT RATE - ASR Baseload Report.

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2014 VA Nuclear Outage Report

Station/Unit	Outage Type*	Work Scope	Outage days (2014 portion)	Derate Hours (2014 portion)	2014 Dates Start	2014 Dates End	Avg Mws Loss/Hr for Derates		O&M Spend ($ in millions)
North Anna 1	DR	Ramped due to loss of MSR control power		12.87	5/3/14	5/4/14	12.2		
North Anna 1	DR	Ramped Unit for Turbine Valve Freedom Testing		8.20	5/21/14	5/21/14	23.2		
North Anna 1	DR	Ramped due to loss of MSR control power		3.85	5/28/14	5/28/14	20.2		
North Anna 1	DR	Short term decrease in MS pressure while swapping MFW Pumps		0.20	6/25/14	6/25/14	0.2		
North Anna 1	DR	Elevated lake temperature resulted in degraded condenser pressure and cycle efficiency		0.95	6/27/14	6/27/14	1.2		
North Anna 1	DR	Eleveated lake temperatures cause cycle inefficiency		1.00	7/15/14	7/15/14	1.2		
North Anna 1	DR	Elevated lake temperature		0.36	9/2/14	9/6/14	3.2		
North Anna 1	DR	Increased RSST load		25.00	9/6/14	9/8/14	17.2		
North Anna 1	FO	Manual Shutdown to repair RC leakage resulting in containment sump level	8.92		12/23/14	12/31/14	946.2		$ 1.0
North Anna 2	FO	Main FW Pump Trip resulted in Manual Reactor Trip	1.34		2/2/14	2/3/14	944.7		$ 0.1
North Anna 2	DR	Performed 2-PT-13.4 (Moderator Temperature Coefficient Measurement)		8.17	7/2/14	7/2/14	25.7		
North Anna 2	DR	High lake temps result in reduced cycle efficiency		28.00	7/2/14	7/4/14	1.7		
North Anna 2	PO	NAPS 2 Offline for Scheduled Refueling Outage	33.97		9/7/14	10/10/14	944.7		$ 33.1
North Anna 2	DR	Ramp up from refueling		78.67	10/10/14	10/14/14	1.8		
Surry 2	DR	Fast Ramp to 74%, IA Header Failure cascading to Secondary Drain		17.60	3/6/14	3/6/14	202.0		
Surry 2	DR	Ramp for Pressurizer Spray Valve Repairs		2.13	3/19/14	3/19/14	406.0		
Surry 2	FO	SPS Unit 2 Offline for Pressurizer Spray Valve Repairs	2.60		3/19/14	3/22/14	838.0		$ 0.2
Surry 2	DR	Ramp Up for Pressurizer Spray Valve Repairs		21.22	3/22/14	3/23/14	406.0		
Surry 2	DR	SPS Unit 2 End of Core Life Coastdown		49.50	4/17/14	4/19/14	12.5		
Surry 2	DR	SPS Unit 2 Ramp Offline for Scheduled Refueling Outage		4.50	4/19/14	4/20/14	425.3		
Surry 2	PO	SPS U2 Offline for Scheduled Refueling Outage	31.59		4/20/14	5/21/14	838.0		$ 36.1
Surry 2	DR	Ramp up from Scheduled Refueling Outage		58.57	5/21/14	5/24/14	388.0		
Surry 2	FO	Spurious: Automatic Reactor Trip caused by a loose electrical connection in U2 RX Trip Breaker logic circuitry.	2.44		10/13/14	10/16/14	838.0		$ 0.2
Surry 2	DR	Ramp Up from Spurious Automatic Reactor Trip		16.92	10/15/14	10/16/14	336.0		
Surry 2	DR	Ramp to 80%, 2nd Pt FW Heater Safety Valve (2-ES-SV-202A) lifted		21.25	11/5/14	11/5/14	163.0		

** PO = Planned Outage MO = Maintenance Outage FO = Forced Outage DR = Derate*

Data Source: PowerGads

Note: All references to Avg. Available Capacity less than NDC hidden

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2014 Nuclear Performance Statistics

Station	Unit #	Heat Rate (BTU/kWh)	Equiv. Avail.	EFOR	Cap Factor
North Anna	1	10,320.18	97.54	2.45	99.89
North Anna	2	10,343.37	90.32	0.41	91.95
Surry	1	10,202.16	100.00	0.00	103.13
Surry	2	10,270.97	89.32	1.84	92.11

Data Sources:

1. EA, EFOR, CF - ASR Summary Statistical Report
2 HEAT RATE - ASR Baseload Report.

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VIRGINIA ELECTRIC AND POWER COMPANY
MISCELLANEOUS EXPENSES 2013
CASE NO. PUE-2015-00027

Industry Association Dues	$ 10,328,160
Other Expenses (Detailed Below)	9,320,812
Total	$ 19,648,972

Other Expenses Detail:

1	Dominion Resources Services, Inc. Billings for Services Rendered to Virginia Power	$ 3,356,445
2	Virginia Department of Emergency Management Fees	1,890,789
3	Legal Notices	755,071
4	Financing Fees	2,820,467
5	Other	498,040
	Grand Total	$ 9,320,812

Note:
Advertising expenses included in Schedule 31 are excluded from this schedule.

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VIRGINIA ELECTRIC AND POWER COMPANY
MISCELLANEOUS EXPENSES 2014
CASE NO. PUE-2015-00027

Industry Association Dues	$ 12,417,245
Other Expenses (Detailed Below)	5,760,384
Total	$ 18,177,629

Other Expenses Detail:

1	Dominion Resources Services, Inc. Billings for Services Rendered to Virginia Power	$ 2,049,491
2	Virginia Department of Emergency Management Fees	2,013,391
3	Legal Notices	502,789
4	Financing Fees	1,028,823
5	Other	165,890
	Grand Total	$ 5,760,384

Note:
Advertising expenses included in Schedule 31 are excluded from this schedule.

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Virginia Electric and Power Company
Affiliate Services
Case No. PUE-2015-00027

All portions of the information required in Schedule 35 are included in the Company's 2014 Annual Affiliates Report filed with the Commission on March 27, 2015.