

***East Kentucky Power***  
**Event Report**  
*01/01/2023 To 12/31/2023 (Inc. OMC)*

***Spurlock 1***

Event Start	Event End	Event Duration	Eq Hrs	Event Num	Event Index	Event Type	Event Red	Event Cap	Cause Code	Amp Code	Fail Code	Event Description
01/03/2023 04:49	01/03/2023 09:16	4.45	4.45	1	1	MO	300	0	4293			Replaced EHC system coupling.
02/21/2023 05:35	02/21/2023 17:49	12.23	1.84	2	1	D1	45	255	1456			ID fan control damper locked up.
02/21/2023 18:17	02/23/2023 23:10	52.88	7.93	5	1	D1	45	255	1456			ID control damper locked up.
02/24/2023 00:15	02/28/2023 18:17	114.03	114.03	3	1	MO	300	0	1456			Make repairs to ID fan control damper.
02/28/2023 18:17	03/10/2023 08:55	230.63	0.00	4	1	RS	0	0	0			Reserve Shutdown
03/10/2023 08:55	03/10/2023 18:29	9.57	9.57	6	1	SF	300	0	4279			Flange leaking on HP turbine sensing line to 1st pressure transmitter.
03/29/2023 01:30	04/01/2023 09:30	80.00	80.00	7	1	MO	300	0	1000			Waterwall tube leak.
04/01/2023 09:30	04/02/2023 16:14	30.73	0.00	8	1	RS	0	0	0			Reserve Shutdown
04/02/2023 16:14	04/07/2023 01:06	104.87	17.48	9	1	D1	50	250	3539			Unit supplying steam to International Paper.
04/08/2023 13:23	04/11/2023 02:40	61.28	10.21	10	1	D1	50	250	3539			Unit supplying steam to International Paper.
04/13/2023 12:00	04/17/2023 21:34	105.57	17.59	11	1	D4	50	250	3539			Unit supplying steam to International Paper.
04/23/2023 01:36	04/29/2023 08:18	150.70	150.70	12	1	MO	300	0	1488			Air heater water outage.
05/04/2023 05:00	05/04/2023 05:53	0.88	0.35	13	1	D1	120	180	4261			Turbine control valve failed closed.
05/04/2023 10:24	05/04/2023 13:30	3.10	3.10	14	1	U1	300	0	4261	T2		Replace #1 turbine control valve servo.
05/05/2023 03:40	05/06/2023 09:56	30.27	3.42	15	1	D1	155	145	3110			Condenser tube leak.
05/05/2023 10:17	05/06/2023 09:56	23.65	23.65	16	1	U1	300	0	3110	T2		Condenser tube leak
05/06/2023 09:56	05/07/2023 08:54	22.97	0.00	17	1	RS	0	0	0			Reserve Shutdown
05/08/2023 00:00	06/28/2023 19:04	1243.07	207.18	18	1	D4	50	250	3539			Unit supplying steam to International Paper.
05/19/2023 22:13	05/21/2023 20:00	45.78	16.02	19	1	D1	105	145	8010			Ball mill motor failure.
05/20/2023 06:04	05/21/2023 20:00	37.93	2.53	20	1	D1	20	125	8010			Ball mill motor failure.
06/26/2023 13:39	06/26/2023 14:00	0.35	0.18	21	1	D1	155	95	1455			ID Fan indicated high bearing temperature (thermocouple failed).

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06/30/2023 04:15	06/30/2023 06:42	2.45	0.41	22	1	D1	50	250	3539			Unit supplying steam to International Paper.
06/30/2023 16:10	06/30/2023 23:59	7.82	0.47	23	1	D1	18	282	1401			FD fan inlet control damper degrading resulting in below normal O2.
07/01/2023 14:33	07/01/2023 23:59	9.43	0.31	24	1	D1	10	290	1401			FD fan inlet control damper issue resulting in below normal O2.
07/05/2023 18:54	07/05/2023 23:47	4.88	0.28	25	1	D1	17	283	300			Pulverizer motor tripped due to ground fault.
07/11/2023 06:00	07/11/2023 12:18	6.30	3.26	26	1	D4	155	145	1401			Inspected and repaired control damper linkage turnbuckle.
07/12/2023 06:20	07/12/2023 14:51	8.52	1.84	27	1	D4	65	235	344			Pulverizer Inspection PMs
07/13/2023 06:00	07/13/2023 06:41	0.68	0.15	28	1	D4	65	235	344			Pulverizer Inspection PMs
07/21/2023 20:02	07/21/2023 20:45	0.72	0.37	29	1	D1	155	145	4309			Received Turbine Stress alarm, alarm was determined to be faulty.
09/21/2023 03:04	12/16/2023 12:21	2074.28	2,074.28	30	1	PO	300	0	4400			Turbine Major Overhaul
12/22/2023 22:31	12/23/2023 07:30	8.98	3.59	31	1	D1	120	180	4250			Elevated low pressure turbine bearing vibration.
12/23/2023 07:30	12/23/2023 16:45	9.25	4.32	32	1	D1	140	160	4250			Elevated low pressure turbine bearing vibration.
12/23/2023 16:45	12/23/2023 17:30	0.75	0.05	33	1	D1	20	280	4250			Elevated low pressure turbine bearing vibration.

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***Spurlock 2***

Event Start	Event End	Event Duration	Eq Hrs	Event Num	Event Index	Event Type	Event Red	Event Cap	Cause Code	Amp Code	Fail Code	Event Description
04/02/2023 04:02	04/06/2023 00:24	92.37	92.37	1	1	U1	510	0	1000	T1		Waterwall tube leak.
04/06/2023 00:24	04/06/2023 11:50	11.43	0.00	2	1	RS	0	0	0			Reserve Shutdown
04/08/2023 13:11	04/08/2023 14:13	1.03	0.17	3	1	D1	85	425	1000			Investigating potential waterwall tube leak.
04/08/2023 14:13	04/10/2023 11:05	44.87	44.87	4	1	U1	510	0	1000	T1		Boiler waterwall tube leak
04/10/2023 11:05	04/12/2023 00:00	36.92	0.00	5	1	RS	0	0	0			Reserve Shutdown
04/12/2023 00:00	04/16/2023 17:40	113.67	113.67	6	1	MO	510	0	1350			Replace degrading boiler waterwall tubes.
04/16/2023 17:40	04/17/2023 13:50	20.17	0.00	7	1	RS	0	0	0			Reserve Shutdown
05/08/2023 03:14	06/12/2023 00:00	836.77	836.77	8	1	PO	510	0	1812			Annual planned outage. Rebuild all turbine & BFPT valves and routine outage work
06/12/2023 00:00	06/17/2023 00:00	120.00	120.00	9	1	MO	510	0	1455			Overhaul ID fan.
06/17/2023 00:00	06/24/2023 00:00	168.00	168.00	10	1	MO	510	0	3661			Motor and Breaker to 2D Pulverizer failed.
06/24/2023 00:00	06/28/2023 00:51	96.85	96.85	11	1	MO	510	0	4261			#4 Turbine Control valve not seating properly.
06/30/2023 04:05	06/30/2023 06:50	2.75	1.42	12	1	D1	264	246	3412			BFPT tripped due to high HP bearing vibration.
07/21/2023 21:00	07/22/2023 02:18	5.30	2.60	13	1	D4	250	260	855			Calibrated boiler safety valves
10/08/2023 07:00	10/08/2023 18:00	11.00	5.39	14	1	D4	250	260	3690			Phase 1 of Installing general service cubical, bus and tie breaker.
10/14/2023 20:00	10/15/2023 04:00	8.00	3.92	15	1	D4	250	260	3690			Phase 2 of Installing general service cubical, bus and tie breaker.
10/15/2023 12:00	10/15/2023 22:06	10.10	4.95	16	1	D4	250	260	3690			Phase 3 of Installing general service cubical, bus and tie breaker.
10/21/2023 19:00	10/22/2023 05:00	10.00	4.90	17	1	D4	250	260	3690			Phase 4 of Installing general service cubical, bus and tie breaker.
10/22/2023 12:00	10/23/2023 03:02	15.03	7.37	18	1	D4	250	260	3690			Phase 5 of Installing general service cubical, bus and tie breaker.
11/05/2023 07:00	11/05/2023 18:07	11.12	5.45	19	1	D4	250	260	3690			Phase 6 of Installing general service cubical, bus and tie breaker.
11/27/2023 11:19	11/27/2023 14:26	3.12	1.53	20	1	D1	250	260	8699			Wet Electrostatic Precipitator inspection.
11/29/2023 12:06	11/30/2023 00:58	12.87	6.31	21	1	D4	250	260	8699			Repair breach in Wet Electrostatic Precipitator.

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11/30/2023 12:00	12/01/2023 00:35	12.58	6.17	22	1	D4	250	260	8699			Repair breach in Wet Electrostatic Precipitator.
12/01/2023 12:00	12/02/2023 02:37	14.62	7.16	23	1	D4	250	260	8699			Repair breach in Wet Electrostatic Precipitator.
12/02/2023 12:10	12/02/2023 18:58	6.80	3.33	24	1	D4	250	260	8699			Repair breach in Wet Electrostatic Precipitator.
12/27/2023 12:11	12/27/2023 13:57	1.77	0.36	25	1	D1	105	405	1488			Elevated air heater amps.
12/28/2023 18:21	12/28/2023 21:04	2.72	0.77	26	1	D1	145	365	1488			Elevated air heater outlet gas temperatures.
12/28/2023 21:04	12/29/2023 01:00	3.93	0.27	27	1	D1	35	475	1488			Elevated air heater outlet gas temperatures.

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***Spurlock 3***

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03/02/2023 03:12	03/18/2023 00:00	379.80	0.00	1	1	RS	0	0	0			Reserve Shutdown
03/18/2023 00:00	04/16/2023 04:41	700.68	700.68	2	1	PO	268	0	1812			Annual Planned Outage
04/30/2023 09:04	04/30/2023 10:32	1.47	0.44	3	1	D1	80	188	250			Obstruction in coal feeder.
05/03/2023 03:21	05/03/2023 11:27	8.10	0.85	4	1	D1	28	240	320			Foreign object (broken plow) in Limestone Mill.
05/05/2023 10:00	05/05/2023 11:43	1.72	0.38	5	1	D4	60	208	855			Check/calibrate drum safety valve
05/09/2023 19:48	05/10/2023 09:44	13.93	2.50	6	1	D1	48	220	890			Bed ash screw conveyor cooling water leak.
05/13/2023 02:03	05/25/2023 00:54	286.85	286.85	7	1	MO	268	0	890			Bed ash screw conveyor repair.
06/14/2023 07:00	06/14/2023 12:03	5.05	2.41	8	1	D4	128	140	855			Calibrate boiler safety valve
07/14/2023 17:21	07/14/2023 22:22	5.02	0.90	9	1	D1	48	220	3211			Circulating Water Pump 3B Trip
07/19/2023 06:00	07/19/2023 09:10	3.17	1.51	10	1	D4	128	140	931			Repair Ash System Leaks
07/29/2023 22:00	08/01/2023 17:03	67.05	29.52	11	1	D1	118	150	3411			Boiler feed pump motor tripped due to high outboard bearing temperature.
09/19/2023 07:00	09/19/2023 14:54	7.90	0.88	12	1	D4	30	238	344			Performed limestone mill PM.
10/01/2023 08:45	10/01/2023 09:14	0.48	0.17	13	1	D1	93	175	8651			Baghouse / Opacity issues.
10/01/2023 09:14	10/01/2023 10:07	0.88	0.44	14	1	D1	133	135	8651			Baghouse / Opacity issues.
10/04/2023 05:00	10/04/2023 08:03	3.05	1.46	15	1	D4	128	140	8650			Repair Baghouse fluid trough.
10/07/2023 07:00	10/07/2023 10:24	3.40	1.62	16	1	D4	128	140	8650			Repair Baghouse fluid trough.
11/03/2023 11:00	11/03/2023 13:07	2.12	1.01	17	1	D4	128	140	880			Made repairs to flyash transport piping.
11/15/2023 21:09	11/16/2023 03:00	5.85	0.66	18	1	D1	30	238	880			Flyash removal system feeders failed to operate (faulty solenoids).
11/18/2023 01:31	11/21/2023 04:46	75.25	75.25	19	1	MO	268	0	1360			Boiler drain valve leaking-by (replacing drain).
12/19/2023 17:35	12/19/2023 20:58	3.38	0.38	20	1	D1	30	238	320			Foreign debris (metal) in Limestone mill.
12/19/2023 20:58	12/20/2023 04:12	7.23	1.35	21	1	D1	50	218	320			Foreign debris (metal) in Limestone mill.

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12/20/2023 16:30	12/20/2023 19:23	2.88	0.22	22	1	D1	20	248	250			Foreign debris (metal) in coal feeder.
12/21/2023 04:33	12/21/2023 06:17	1.73	0.25	23	1	D1	38	230	950			High furnace D/P
12/21/2023 06:17	12/21/2023 09:13	2.93	0.74	24	1	D1	68	200	950			High furnace D/P
12/21/2023 09:13	12/21/2023 15:07	5.90	1.94	25	1	D1	88	180	950			High furnace D/P
12/22/2023 08:00	12/22/2023 13:52	5.87	2.80	26	1	D4	128	140	344			Limestone mill PM
12/30/2023 08:00	12/30/2023 11:12	3.20	1.53	27	1	D4	128	140	8650			Repaired fluid trough leak in baghouse.

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***Spurlock 4***

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01/05/2023 15:44	01/05/2023 16:12	0.47	0.28	1	1	D1	163	105	3454			Boiler Feed Booster Pump outboard bearing cooling fan blades sheared.
01/05/2023 16:12	01/05/2023 18:32	2.33	1.16	2	1	D1	133	135	3454			Boiler Feed Booster Pump outboard bearing cooling fan blades sheared.
01/18/2023 07:00	01/18/2023 17:00	10.00	4.78	3	1	D4	128	140	3407			Repaired Boiler Feed Pump suction strainer drain valve.
02/03/2023 09:08	02/03/2023 12:16	3.13	1.03	4	1	D1	88	180	1488			Elevated main drive motor amps.
02/11/2023 01:19	02/20/2023 09:00	223.68	223.68	5	1	MO	268	0	4520			Generator bushing hydrogen leak.
02/20/2023 09:00	02/26/2023 22:19	157.32	0.00	6	1	RS	0	0	0			Reserve Shutdown
02/28/2023 22:08	03/01/2023 03:35	5.45	2.50	7	1	D1	123	145	3415			Boiler feed pump lube oil piping leak.
03/05/2023 07:00	03/05/2023 16:05	9.08	2.98	8	1	D4	88	180	3415			Inspect and repair lube oil piping.
03/07/2023 20:36	03/08/2023 08:22	11.77	3.64	9	1	D1	83	185	250			Feeder discharge plugged.
03/10/2023 04:40	03/10/2023 09:00	4.33	0.65	10	1	D1	40	228	250			Feeder discharge plugged.
03/10/2023 09:00	03/15/2023 09:42	119.70	39.30	11	1	D1	88	180	250			Feeder discharge plugged.
03/15/2023 09:42	03/16/2023 10:56	25.23	6.40	12	1	D1	68	200	250			Feeder discharge plugged
03/16/2023 10:56	03/16/2023 15:04	4.13	0.90	13	1	D2	58	210	250			Feeder discharge plugged.
03/22/2023 10:24	03/22/2023 11:00	0.60	0.20	14	1	D1	88	180	8802			Ammonia system PLC failed
03/26/2023 01:42	03/26/2023 14:44	13.03	13.03	15	1	MO	268	0	3661			4160V electrical breaker bound up in the cubical requiring a dead bus to safely repair. The Unit was taken off line to accommodate the dead bus requirement.
03/26/2023 14:44	03/27/2023 10:53	20.15	0.00	16	1	RS	0	0	0			Reserve Shutdown
04/01/2023 17:41	04/01/2023 17:52	0.18	0.06	17	1	D1	83	185	8651			Filter bag failed in baghouse compartment.
04/10/2023 08:55	04/11/2023 16:56	32.02	5.14	18	1	D1	43	225	340			Broken wind vanes and plows.
04/17/2023 04:43	04/18/2023 11:48	31.08	5.21	19	1	D1	68	200	4293			Hydraulic leak on turbine control valve piping/fitting.
04/18/2023 01:14	04/18/2023 21:32	20.30	20.30	20	1	MO	268	0	4293			Hydraulic leak on turbine control valve piping/fitting.
04/28/2023 10:00	04/28/2023 12:07	2.12	0.70	21	1	D4	88	180	894			Repair ash removal conveying system leak.

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05/02/2023 08:06	05/02/2023 11:44	3.63	3.63	22	1	U1	268	0	3979	T2		Lost power to DCS client computers
05/11/2023 11:00	05/11/2023 12:42	1.70	0.56	23	1	D4	88	180	894			Ash conveying system repairs.
06/05/2023 19:43	06/06/2023 16:19	20.60	4.84	24	1	D1	63	205	3245			Power supply transformer to Cooling Tower faulted.
06/21/2023 07:00	06/21/2023 14:35	7.58	2.49	25	1	D4	88	180	310			Limestone mill PM's
06/23/2023 15:36	06/23/2023 17:20	1.73	1.28	26	1	D1	198	70	267			Lost primary air flow signal to the DCS.
06/28/2023 10:45	06/28/2023 16:33	5.80	2.01	27	1	D1	93	175	3414			Control board on the Beck drive failed.
06/28/2023 16:33	06/28/2023 16:50	0.28	0.02	28	1	D1	18	250	3414			Control board on the Beck drive failed.
07/11/2023 06:00	07/11/2023 09:26	3.43	0.51	29	1	D4	40	228	250			Replaced coal feeder cleanout conveyor bearing.
07/19/2023 06:00	07/19/2023 09:10	3.17	1.54	30	1	D4	130	138	3409			Boiler Feed Pump Beck Drive Replacement
07/28/2023 23:28	07/29/2023 10:45	11.28	11.28	31	1	U1	268	0	350	T1		Coal feed transport piping to the combustor plugged, once cleared, large portion of fuel entered the combustor resulting in a furnace pressure excursion that caused a MFT.
07/31/2023 09:00	07/31/2023 12:58	3.97	1.15	32	1	D1	78	190	250			Limestone feeder belt failed.
08/10/2023 00:41	08/12/2023 15:13	62.53	62.53	33	1	MO	268	0	1488			Replace air heater gear box.
08/12/2023 15:13	08/13/2023 04:00	12.78	0.00	35	1	RS	0	0	0			Reserve Shutdown
08/31/2023 14:31	08/31/2023 16:39	2.13	0.24	34	1	D1	30	238	250			Foreign debris in coal feeder.
09/01/2023 10:55	09/01/2023 13:18	2.38	1.49	36	1	D1	168	100	1455			ID fan tripped due to high furnace pressure. Furnace pressure excursion occurred when baghouse compartment lid was reinstalled.
09/20/2023 13:26	09/20/2023 16:49	3.38	0.25	37	1	D1	20	248	320			Limestone Mill floor bolts broken off.
10/01/2023 07:00	10/01/2023 10:50	3.83	0.43	38	1	D4	30	238	250			Replaced limestone feeder drive motor.
10/07/2023 00:57	11/05/2023 02:29	698.53	698.53	39	1	PO	268	0	1812			Annual planned outage (routine inspections and maintenance).
11/05/2023 16:22	11/05/2023 17:14	0.87	0.87	44	1	U1	268	0	1599	T1		Furnace pressure excursion due to excess limestone mill air flow.
11/06/2023 10:40	11/06/2023 11:37	0.95	0.07	40	1	D1	20	248	8650			Excess ash buildup in ash hoppers.
11/06/2023 11:37	11/06/2023 17:25	5.80	1.08	41	1	D1	50	218	8650			Excess ash buildup in ash hoppers.

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11/12/2023 09:20	11/12/2023 11:50	2.50	2.50	42	1	U1	268	0	1421	T1		SA fan tripped due to loss of status signal to the running lube oil pump, while stand-by pump was out of service.
12/01/2023 01:37	12/08/2023 19:34	185.95	185.95	43	1	MO	268	0	989			Broken bed nozzle(s) in combustor resulting in inadequate bed material in circulation.
12/26/2023 13:58	12/26/2023 14:07	0.15	0.01	45	1	D1	20	248	250			Foreign debris in coal feeder.
12/26/2023 14:07	12/26/2023 15:54	1.78	0.20	46	1	D1	30	238	250			Foreign debris in coal feeder.