U.S. Steel - M alley Works

Exceedance Root Causes Tracking L orrective Action Dates/Responses

REFERENCE NUMBER	EVENT STATUS	INSPECT DATE	FACILITY	OVEN	AGENCY	INSPECTION REASON	INSPECTION TYPE	AFFECTED STANDARD	DEVIATION_YN	EVENT DESCRIPTION	BREAKDOWN	ROOT CAUSE AREA	CORR ACTION RESPONSE DATE	DATE CA EFFECTIVE	ROOT CAUSE AREA	ROOT CAUSE / CA RESPONSE	ROOT CAUSE CA DATE	ACTION DESCRIPTION
979907		Jul 19, 2014 7:17:00 AM	BATTERY 1	B23	U	Routine	PUSH	SIP	N	Opacity of 35% => Limit of 20%	bd-cmd	HEATING	Jul 23, 2014 2:16:28 PM		HEATING	XErrePushDelays_CoolOven_Restriction_Flue(s)	2014-07-15	B23/1 - NCT - 23.7 cross walls taken and in system B23/1 -flue inspection of heating wall low flames on 1,3,3, 12,13,14,23,24,25,28 small amount of carbon over gas nozzle. all flues on this wall were rolled this morning.
985212		Aug 6, 2014 11:29:00 AM	BATTERY 1	A18	U	Inspection	PUSH	SIP	N	Opacity of 45% => Limit of 20%		HEATING	Aug 9, 2014 5:40:00 AM	Aug 12, 2014 6:00:00 AM	HEATING	caComment		B24/1 comparison wall inspection of these flues show low flame and drive in air and gas ports 1 thur 15, 24,25,26,28 indication of gas gun blockage. rolled flues 9,14,15.
989385		Aug 11, 2014 10:18:00 AM	BATTERY 1	B05	U	Routine	PUSH	SIP	N	Opacity of 35% => Limit of 20%	bd-cmd	HEATING	Oct 1, 2014 5:25:22 AM	Oct 31, 2014 9:59:00 AM	HEATING	XErrePushDelays_CoolOven_Restriction_Flue(s)	2014-08-12	ready for verification 1 Battery push only violation Nat Hood. Oven has not been a violation last 3 years. B5 wall #16, #18 and #21 flues burning low. Flue crew addressing these flues this evening. B6 wall 13-15 flues are burning low.
989826		Aug 12, 2014 8:46:00 AM	BATTERY 1	A24	U	Routine	PUSH	SIP	N	Opacity of 30% => Limit of 20%	bd-cmd	HEATING	Oct 1, 2014 5:25:55 AM	Nov 6, 2014 9:07:00 AM	HEATING	caComment	2014-08-12	oven ready for verification
990822		Aug 15, 2014 6:49:00 AM	BATTERY 1	B30	U	Routine	PUSH	SIP	N	Opacity of 20% => Limit of 20%	bd-cmd	HEATING	Oct 1, 2014 5:25:11 AM	Nov 22, 2014 9:45:00 AM	HEATING	caComment		oven on extended coking time
990923		Aug 15, 2014 7:02:00 AM	BATTERY 1	C01	U	Routine	PUSH	SIP	N	Opacity of 20% => Limit of 20%	bd-cmd	HEATING	Oct 1, 2014 5:31:25 AM	Nov 22, 2014 9:54:00 AM	HEATING	XErrePushDelays_CoolOven_Restriction_GasNozzle	2014-10-01	oven has some restriction on coke side gas ports flues 26,27,28
992939		Aug 20, 2014 6:43:00 AM	BATTERY 1	C01	U	Routine	PUSH	SIP	N	Opacity of 30% => Limit of 20%		HEATING	Oct 1, 2014 9:31:25 AM	Nov 22, 2014 9:54:00 AM	HEATING	XErrePushDelays_CoolOven_Restriction_GasNozzle	2014-10-01	oven has some restriction on coke side gas ports flues 26,27,28
992841		Aug 21, 2014 9:52:00 AM	BATTERY 1	B24	U	Routine	PUSH	SIP	N	Opacity of 35% => Limit of 20%	bd-cmd	HEATING			HEATING	XErrePushDelays_CoolOven_Restriction_Flue(s)	2014-08-24	B24 heating wall flue inspection 1 through 15 flue low flames indication of plug gun the 25,26 flues are dead no flame at all. B25 Comparison wall 1,3,4,5,6,7,8,9 24,25,26,27,28 flue has low burning flames possible gun issues gas nozzle and air ports look to be completely

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990924		Aug 15, 2014 7:16:00 AM	BATTERY 2	B01	U	Routine	PUSH	SIP	N	Opacity of 20% => Limit of 20%	bd-cmd	HEATING	Oct 1, 2014 5:33:34 AM	Nov 13, 2014 11:09:00 AM	HEATING	caComment		oven ready for verification
990925		Aug 15, 2014 8:33:00 AM	BATTERY 2	B03	U	Routine	PUSH	SIP	N	Opacity of 20% => Limit of 20%	bd-cmd	HEATING	Oct 1, 2014 5:33:34 AM	Nov 14, 2014 12:10:00 PM	HEATING	caComment		oven ready for verification
990759		Sep 12, 2014 10:37:00 AM	BATTERY 2	B16	U	Routine	PUSH	SIP	N	Opacity of 35% => Limit of 20%	bd-cmd	HEATING	Oct 1, 2014 5:23:45 AM	Sep 30, 2014 11:58:00 AM	HEATING	caComment	2014-09-18	oven ready for verification
1002169		Nov 23, 2014 9:33:00 AM	BATTERY 2	B04	U	Inspection	PUSH	SIP	N	Opacity of 40% => Limit of 20%		HEATING	Oct 1, 2014 5:24:20 AM	Oct 2, 2014 1:04:00 PM	HEATING	caComment	2014-09-23	oven ready for verification B10/2 out on push by the county
1009169		Oct 2, 2014 1:10:00 PM	BATTERY 2	B10	U	Inspection	PUSH	SIP	N	Opacity of 60% => Limit of 20%		HEATING	Oct 8, 2014 3:43:48 PM	Oct 8, 2014 9:41:00 AM	HEATING	XEnvPushDelays_CoolOven_Restriction_Flue(s)	2014-10-02	Investigated B10/2 Hood Tame 258, suction 7.0, 5 fans running NCT 23.28 last time out 7/3/2012
1010541		Oct 27, 2014 10:05:00 AM	BATTERY 2	B14	U	Routine	PUSH	SIP	N	Opacity of 35% => Limit of 20%	bd-cmd	HEATING	Oct 27, 2014 4:56:29 PM	Nov 16, 2014 9:40:00 AM	HEATING	XEnvPushDelays_CoolOven_Restriction_Flue(s)	2014-10-27	B10/2 Heating wall low burning flues 1,5,18, 22,25,28 light carbon over air and gas ports B11/2 Compansion wall low B14/2 Flue inspection show low flames 1 thur 11 flue high burner on #7 flue gun leak 28 thur 28th flue low flames as well high burner on #24 flue, all flues gas and air ports appear to be open will have the heater responsible for the wall to rod out gas and air ports, this wall shows the same results on last month crosswall reading, gun crew and flue crew to make repairs ASAP
1015772		Nov 20, 2014 10:02:00 AM	BATTERY 2	A31	U	Routine	PUSH	SIP	N	Opacity of 40% => Limit of 20%		HEATING			HEATING	XEnvPushDelays_CoolOven_Restriction_Regenerator	2014-11-20	B15/2 Compansion wall inspection show low flames 1,2,13,14,15,24 thur 28 th flue high burner on #3 flue gun leak, 24 A31/2 heating wall visual inspection of flues low flame on pusher side and coke side 1 thur 5 flue and 14 thur the 28th flue gun leak in regenerator, Mckeown welding on the A30 regenerator pusher side and coke side found kaowool covering regenerator had fallen out allowing it to cool down affecting flue temperature on the A31 wall, we reinstall kaowool and I instructed Mckeown to install a false wall of brick along with kaowool that can be remove
1028143		Dec 8, 2014 12:42:00 PM	BATTERY 2	A18	U	Inspection	PUSH	SIP	N	Opacity of 40% => Limit of 20%		HEATING	Dec 15, 2014 2:08:38 PM	Dec 21, 2014 1:04:00 PM	HEATING	XEnvPushDelays_CoolOven_Leakage_GasGunNozzle	2014-12-08	Cross wall taken on 11/29/30 show 9 flues below the scale average, some work was done on those flues by the heater responsible improvement were made but not enough gun leak on coke side affecting all coke side flues will make repair later this week.
1022563		Dec 18, 2014 9:20:00 AM	BATTERY 2	B18	U	Routine	PUSH	SIP	N	Opacity of 50% => Limit of 20%		HEATING	Dec 26, 2014 8:35:16 AM	Dec 26, 2014 1:09:00 PM	HEATING	XEnvPushDelays_CoolOven_Leakage_GasGunNozzle	2014-12-20	B18/2 & B19/2 visual inspection of flues,high burner on pusher side & coke side #1,3,5,26,27,28th flue gas gun leak fire coming up through air port visual inspection looking into regenerator support Reviews

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929403		Jul 14, 2014 7:09:00 AM	BATTERY 3	A08	U	Routine	PUSH	SIP	N	Opacity of 70% => Limit of 20%		HEATING	Jul 15, 2014 11:17:30 AM	Jul 16, 2014 7:20:00 AM	HEATING	XDnPushDelays_CoolOven_Restriction_Flue(s)	2014-07-19	Flue inspection A6/3 heating wall low temp 2,3,4,5,21,22,28 some debris in airport and gas ports will inspect guns tomorrow. Flue inspection companion wall A3 low temp on 1,14,15,16,17,18,19,22,28 some debris in air and gas ports
887790		Aug 4, 2014 1:20:00 PM	BATTERY 3	A04	U	Inspection	PUSH	SIP	N	Opacity of 35% => Limit of 20%		HEATING	Aug 9, 2014 5:38:59 AM	Aug 9, 2014 10:23:00 AM	HEATING	XDnPushDelays_CoolOven_Restriction_Flue(s)	2014-08-09	Slightly cool rose skin End Flues A4 wall. Contributing factor was PEC Hood South seal flap is not working. PEC Mechanical notified.
989824		Aug 12, 2014 7:07:00 AM	BATTERY 3	B24	U	Routine	PUSH	SIP	N	Opacity of 30% => Limit of 20%	bd-cmd	HEATING	Oct 1, 2014 7:26:35 AM	Nov 6, 2014 9:13:00 AM	HEATING	XDnPushDelays_CoolOven_Restriction_Flue(s)	2014-08-12	1 Battery push only violation No Hood. Oven has not been a violation last 3 years. B5 wall #16, #18 and #21 flues burning low. Flue crew addressing these flues this evening. B6 wall 13-15 flues are burning low B24 wall 1,3, 21,25 flues have slightly restricted gas nozzles and are burning low. B25 wall #1 partly covered airport and #2 slightly restricted gas nozzle.
992037		Aug 20, 2014 6:50:00 AM	BATTERY 3	A01	U	Routine	PUSH	SIP	N	Opacity of 30% => Limit of 20%		HEATING	Aug 21, 2014 6:10:23 PM	Nov 13, 2014 11:04:00 AM	HEATING	XDnPushDelays_CoolOven_Restriction_Flue(s)	2014-08-21	A01/1-(PS)-(06)flue-Dead, (07)flue-Dead, (08)flue-LB, (09)flue-Dead, (10)flue-Dead, (11)flue-LB, (13)flue-LB, A01/1-(PS)-(14)flue-LB, (15)flue-LB. A01/1-(CS)-(16),(17),(18),(19),(20),(21),(22),(23),(24)flues all LB. A02/1-(PS)-(04),(06),(07),(11),(12),(13)flues all LB. A02/1-(CS)-(17),(18),(21)flues all LB.
995597		Sep 4, 2014 12:29:00 PM	BATTERY 3	B27	A	Inspection	PUSH	SIP	N	Opacity of 30% => Limit of 20%	bd-cmd	HEATING	Sep 10, 2014 7:40:50 AM	Nov 25, 2014 2:05:00 PM	HEATING	caCoryment		work completed need verification
1019002		Nov 7, 2014 12:56:00 PM	BATTERY 3	B29	U	Inspection	PUSH	SIP	N	Opacity of 35% => Limit of 20%		HEATING	Dec 15, 2014 12:32:34 PM		HEATING	caCoryment	2014-12-15	need verification reading

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REFERENCE NUMBER	EVENT STATUS	INSPECT DATE	FACILITY	OVEN	AGENCY	INSPECTION MEASUR	INSPECTION TYPE	AFFECTED STANDARD	DEVIATION_YN	EVENT DESCRIPTION	BREAKDOWN	ROOT CAUSE AREA	CORR ACTION RESPONSE DATE	DATE CA EFFECTIVE	ROOT CAUSE AREA	ROOT CAUSE / CA RESPONSE	ROOT CAUSE / CA DATE	ACTION DESCRIPTION
993726		Aug 27, 2014 9:41:00 AM	BATTERY 13	A13	U	Routine	PUSH	SIP	N	Opacity of 25% => Limit of 20%	No cmd	HEATING	Aug 30, 2014 7:49:12 AM		HEATING	XEnsPlus\Details_Operational_Operational_PEC	2014-08-30	CMT, Crossmains, and flue inspection revealed 1st flue CS A13 wall contained. Primary cause was PEC Hood out of service

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985283		Jul 27, 2014 7:26:00 AM	BATTERY 14	B08	U	Routine	PUSH	SIP	N	Opacity of 50% => Limit of 20%		HEATING	Aug 12, 2014 5:33:03 AM	Aug 19, 2014 7:10:00 AM	HEATING	XEnvPushDelays_CoolOven_Restriction_GasNozzle	2014-07-30	1-2 flues CS lots of debris
993260		Aug 26, 2014 9:53:00 AM	BATTERY 14	A09	U	Routine	PUSH	SIP	N	Opacity of 60% => Limit of 20%		HEATING	Aug 27, 2014 5:06:53 AM		HEATING	XEnvPushDelays_Operational_Operational_PEC	2014-08-27	Crosswalls, flue inspection and CMT indicated no issues
995928		Sep 3, 2014 7:51:00 AM	BATTERY 14	B26	U	Routine	PUSH	SIP	N	Opacity of 25% => Limit of 20%		HEATING	Sep 18, 2014 1:24:01 PM	Sep 11, 2014 12:43:00 PM	HEATING	XEnvPushDelays_CoolOven_Leakage_GasAlser	2014-09-15	Suspected damage leakage in gas gum repairs will take some time
1004526		Sep 30, 2014 2:42:00 PM	BATTERY 14	A22	U	Inspection	PUSH	SIP	N	Opacity of 40% => Limit of 20%		HEATING	Oct 3, 2014 1:53:06 PM		HEATING	XEnvPushDelays_CoolOven_Restriction_GasNozzle	2014-10-03	1st flue CS on A-22 wall and A-23 wall restricted.
1005803		Oct 3, 2014 12:11:00 PM	BATTERY 14	A23	U	Inspection	PUSH	SIP	N	Opacity of 40% => Limit of 20%		HEATING	Oct 29, 2014 12:51:12 PM	Dec 3, 2014 9:00:00 AM	HEATING	rallCoupingCleaned		Swaffling completed
1011239		Oct 28, 2014 8:45:00 AM	BATTERY 14	B01	U	Routine	PUSH	SIP	N	Opacity of 40% => Limit of 20%		HEATING	Nov 2, 2014 12:02:51 PM	Nov 2, 2014 7:43:00 AM	HEATING	XEnvPushDelays_CoolOven_Restriction_GasNozzle	2014-11-02	1st flue PS needed a clean-out
1016032		Nov 21, 2014 10:29:00 AM	BATTERY 14	A15	U	Inspection	PUSH	SIP	N	Opacity of 35% => Limit of 20%		HEATING	Dec 10, 2014 1:29:54 PM	Dec 11, 2014 11:39:00 AM	HEATING	XEnvPushDelays_CoolOven_Restriction_GasPort	2014-12-10	Plugged 1st flue PS A-15 wall, flue clean-out performed
1017263		Nov 26, 2014 7:57:00 AM	BATTERY 14	B16	U	Routine	PUSH	SIP	N	Opacity of 40% => Limit of 20%		HEATING	Dec 3, 2014 12:41:33 PM		HEATING	rallCleanedGasNozzle		complete
1022490		Dec 17, 2014 11:00:00 AM	BATTERY 14	B19	U	Routine	PUSH	SIP	N	Opacity of 25% => Limit of 20%		OPER MAINT	Dec 23, 2014 9:13:42 AM		OPER MAINT	Low Suction	2014-12-23	Peak duct temperature 280 F. Avg suction 7.0 in. Hole found in 2-5 ton housing.
1029045		Dec 25, 2014 11:55:00 AM	BATTERY 14	B24	U	Inspection	PUSH	SIP	N	Opacity of 100% => Limit of		HEATING			HEATING	XEnvPushDelays_CoolOven_Leakage_GasSurfNozzle	2014-12-27	B25 wall gust leak and/or restriction

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900199		Aug 13, 2014 6:24:00 AM	BATTERY 15	B01	U	Routine	PUSH	SIP	N	Opacity of 40% => Limit of 20%		HEATING	Aug 23, 2014 6:39:53 AM	Aug 25, 2014 12:07:00 PM	HEATING	caComment		In progress
997733		Sep 12, 2014 11:30:00 AM	BATTERY 15	A01	U	Routine	PUSH	SIP	N	Opacity of 40% => Limit of 20%		OPER MAINT	Sep 19, 2014 8:56:49 AM		OPER MAINT	No Cause Found	2014-09-19	Peak duct temperature 50% F. Avg suction 9.2 in.
1000828		Sep 19, 2014 9:42:00 AM	BATTERY 15	A10	U	Routine	PUSH	SIP	N	Opacity of 25% => Limit of 20%		HEATING	Sep 25, 2014 1:07:29 PM	Oct 1, 2014 4:40:00 PM	HEATING	XErrePushDelays_CoolOven_Restriction_GasNozzle	2014-09-25	Same deaths and restriction in 2nd, 3rd flues FS A-10 wall
1001031		Sep 20, 2014 7:21:00 AM	BATTERY 15	D09	U	Routine	PUSH	SIP	N	Opacity of 80% => Limit of 20%		HEATING	Sep 25, 2014 1:09:02 PM	Oct 1, 2014 5:57:00 PM	HEATING	XErrePushDelays_Other_Other_NothingFound	2014-09-25	root cause unknown, possible deflection of flushing liquor from FS gooseneck, or possibly stem left in oven-unable to determine
1010940		Dec 7, 2014 7:29:00 AM	BATTERY 15	D03	U	Routine	PUSH	SIP	N	Opacity of 40% => Limit of 20%		HEATING	Dec 15, 2014 2:34:45 PM	Dec 21, 2014 9:05:00 AM	HEATING	caDeaneGasNozzle		Mow and nodded 3rd flue CS B-3 wall and 1st flue CS B-4 wall; flue clean-out planned for 2nd flue B-3 wall
1020775		Dec 11, 2014 2:01:00 PM	BATTERY 15	B15	U	Inspection	PUSH	SIP	N	Opacity of 100% => Limit of 20%		HEATING	Dec 15, 2014 2:54:29 PM	Jan 2, 2015 8:12:00 AM	HEATING	caComment		necessary flue clean-outs performed and flues burning well.
1020777		Dec 11, 2014 2:02:00 PM	BATTERY 15	B17	U	Inspection	PUSH	SIP	N	Opacity of 100% => Limit of 20%		HEATING	Dec 15, 2014 3:42:42 PM	Jan 6, 2015 8:21:00 AM	HEATING	caComment		Reviewed with adjustments/temps with Heaters.

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974294		Jul 3, 2014 10:09:00 AM	BATTERY 19	C01	A	Routine	PUSH	SIP	N	Opacity of 20% => Limit of 20%		OPER MAINT	Jul 11, 2014 9:15:15 AM		OPER MAINT	No Cause Found	2014-07-11	Peak duct temperature 344 F. Avg suction 9.3 in.
976098		Jul 7, 2014 8:23:00 AM	BATTERY 19	B01	U	Routine	PUSH	SIP	N	Opacity of 55% => Limit of 20%		HEATING	Jul 17, 2014 9:46:01 AM	Jul 18, 2014 9:16:00 AM	HEATING	XEnvPushDelays_CokeOven_Restriction_GasNozzle	2014-07-17	Nozzle plugged for patching.
989472		Jul 30, 2014 9:49:00 AM	BATTERY 19	B04	U	Routine	PUSH	SIP	N	Opacity of 100% => Limit of 20%		HEATING	Aug 4, 2014 2:12:07 PM	Aug 5, 2014 9:27:00 PM	HEATING	caComment		corrected coal flues
989474		Jul 30, 2014 10:40:00 AM	BATTERY 19	B08	U	Routine	PUSH	SIP	N	Opacity of 60% => Limit of 20%		OPER MAINT	Jul 31, 2014 9:35:59 AM		OPER MAINT	No Action Taken		
993874		Aug 20, 2014 12:28:00 PM	BATTERY 19	C13	U	Inspection	PUSH	SIP	N	Opacity of 50% => Limit of 20%		OPER MAINT	Aug 26, 2014 8:02:10 PM		OPER MAINT	No Cause Found	2014-08-26	Peak duct temperature 368 F. Avg suction 8.2 in.
996396		Sep 5, 2014 10:25:00 AM	BATTERY 19	C19	U	Routine	PUSH	SIP	N	Opacity of 95% => Limit of 20%		OPER MAINT	Sep 10, 2014 9:19:27 AM		OPER MAINT	PEC Change	2014-09-10	Hood car out of service due to planned outage.
996394		Sep 17, 2014 8:02:00 AM	BATTERY 19	C17	U	Routine	PUSH	SIP	N	Opacity of 30% => Limit of 20%		HEATING	Sep 26, 2014 2:48:22 PM	Sep 28, 2014 5:37:00 PM	HEATING	XEnvPushDelays_CokeOven_Restriction_GasNozzle	2014-09-26	Low burning flues around #2 charging hole
996398		Sep 17, 2014 8:32:00 AM	BATTERY 19	C21	U	Routine	PUSH	SIP	N	Opacity of 70% => Limit of 20%		HEATING	Sep 26, 2014 2:45:59 PM	Sep 28, 2014 8:02:00 PM	HEATING	XEnvPushDelays_CokeOven_Leakage_GasBoiler	2014-09-26	low burning flues PS
1002594		Sep 24, 2014 8:30:00 AM	BATTERY 19	C03	U	Routine	PUSH	SIP	N	Opacity of 40% => Limit of 20%		OPER MAINT	Sep 29, 2014 1:20:37 PM		OPER MAINT	No Cause Found	2014-09-29	Peak duct temperature 372 F. Avg suction 9.2 in.
1008517		Oct 6, 2014 8:13:00 AM	BATTERY 19	B13	U	Routine	PUSH	SIP	N	Opacity of 50% => Limit of 20%		HEATING	Oct 20, 2014 4:17:13 PM	Nov 10, 2014 7:56:00 AM	HEATING	XEnvPushDelays_CokeOven_Restriction_Damoutle	2014-10-20	18.8 hour NCT, #2 flue avg. 1856, max duct temp 292, CMT indicates cool ends and a slight dip around #11. #13 flue, overweeks both show cool ends. Flue crew currently investigating, walls were last repaired on 8/20/14
1008577		Oct 13, 2014 10:31:00 AM	BATTERY 19	B03	U	Inspection	PUSH	SIP	N	Opacity of 40% => Limit of 20%	Delayed	HEATING	Oct 15, 2014 12:03:19 PM	Oct 29, 2014 8:33:00 AM	HEATING	caNotRedOperations		PEC notified
1008575		Oct 19, 2014 10:44:00 AM	BATTERY 19	B05	U	Inspection	PUSH	SIP	N	Opacity of 50% => Limit of 20%	Delayed	HEATING	Oct 19, 2014 12:31:01 PM	Oct 25, 2014 8:33:00 AM	HEATING	XEnvPushDelays_Operational_Operational_PEC	2014-10-15	Baghouse kicked out after 25 sections of suction
1009806		Oct 22, 2014 1:30:00 PM	BATTERY 19	B09	U	Inspection	PUSH	SIP	N	Opacity of 85% => Limit of 20%		HEATING	Oct 29, 2014 4:42:23 PM	Oct 31, 2014 9:11:00 AM	HEATING	XEnvPushDelays_CokeOven_Restriction_GasSunkiker	2014-10-29	#7 flue restricted with carbon
1007014		Oct 24, 2014 8:50:00 AM	BATTERY 19	A24	U	Routine	PUSH	SIP	N	Opacity of 40% => Limit of 20%		HEATING	Oct 29, 2014 4:26:27 PM	Nov 12, 2014 12:20:00 PM	HEATING	XEnvPushDelays_CokeOven_Restriction_GasSunkiker	2014-10-29	Flues #24 and #25 carbonized over at floor of flue
1010335		Oct 26, 2014 11:18:00 AM	BATTERY 19	A21	U	Routine	PUSH	SIP	N	Opacity of 40% => Limit of 20%		HEATING	Oct 29, 2014 4:44:20 PM	Dec 14, 2014 9:02:00 AM	HEATING	caCleanedCokeSunkiker		Flues Plotted
1011027		Oct 28, 2014 8:35:00 AM	BATTERY 19	C07	U	Routine	PUSH	SIP	N	Opacity of 50% => Limit of 20%		HEATING	Nov 7, 2014 11:59:38 AM	Dec 5, 2014 9:53:00 AM	HEATING	XEnvPushDelays_CokeOven_Restriction_GasSunkiker	2014-11-02	Carbon found in 8-9-10-11 42-13 flues C5 of C-7 wall and 8-9-10-11 flues P5 of C-8 wall
1012048		Nov 4, 2014 10:10:00 AM	BATTERY 19	C24	U	Survey	PUSH	SIP	N	Opacity of 60% => Limit of 20%		HEATING	Nov 2, 2014 12:06:23 PM	Nov 23, 2014 8:17:00 AM	HEATING	XEnvPushDelays_CokeOven_RushHour_GasSunkiker	2014-11-02	Rust and carbon found in 1-2-5-12 flues P5 and 2-3 flues C5 C-24 wall. Rust/carbon found in 1-2-3-4-9-10-11 flues P3 C-25 wall
1015484		Nov 11, 2014 8:45:00 AM	BATTERY 19	D26	U	Routine	PUSH	SIP	N	Opacity of 30% => Limit of 20%		HEATING	Nov 19, 2014 1:25:23 PM	Dec 1, 2014 9:14:00 AM	HEATING	caComment		Gas nozzles/risers rodded and cleaned
1017361		Nov 26, 2014 6:15:00 AM	BATTERY 19	C27	U	Routine	PUSH	SIP	N	Opacity of 40% => Limit of 20%		HEATING	Dec 3, 2014 12:47:26 PM		HEATING	caComment		Patching performed and flues rodded
1019291		Dec 4, 2014 8:30:00 AM	BATTERY 19	A07	U	Routine	PUSH	SIP	N	Opacity of 60% => Limit of 20%		HEATING	Dec 15, 2014 1:09:27 PM	Dec 23, 2014 11:30:00 AM	HEATING	XEnvPushDelays_CokeOven_Restriction_Damoutle	2014-12-15	2-3-4-5 flues C5 carbonized, debris
1020317		Dec 9, 2014 12:13:00 PM	BATTERY 19	A24	U	Inspection	PUSH	SIP	N	Opacity of 60% => Limit of 20%		OPER MAINT	Dec 18, 2014 1:04:46 PM		OPER MAINT	Other Root Cause	2014-12-18	Peak duct temperature 291 F. Avg suction 9.1 in. Hose rusted in mass air cooler.
1028599		Dec 29, 2014 9:00:00 AM	BATTERY 19	C18	U	Routine	PUSH	SIP	N	Opacity of 35% => Limit of 20%		OPER MAINT	Jan 5, 2015 3:16:33 PM		OPER MAINT	No Cause Found	2015-01-05	Peak duct temperature 394 F. Avg suction 8.1 in.

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Exceedance Root Causes Tracking Log [illegible]orrective Action Dates/Responses

REFERENCE NUMBER	EVENT STATUS	INSPECT DATE	FACILITY	EUID	AGENCY	INSPECTION REASON	INSPECTION TYPE	AFFECTED STANDARD	DEVIATION_YN	EVENT DESCRIPTION	BREAKDOWN	ROOT CAUSE AREA	CORR ACTION RESPONSE DATE	DATE CA EFFECTIVE	ROOT CAUSE AREA	ROOT CAUSE / CA RESPONSE	ROOT CAUSE CA DATE	ACTION DESCRIPTION
969867		Aug 1, 2014 8:40:00 AM	BATTERY 20	B26	U	Routine	PUSH	SIP	N	Opacity of 25% => Limit of 20%		OPER MAINT	Aug 4, 2014 7:23:46 PM		OPER MAINT	No Action Taken		
971915		Aug 20, 2014 11:37:00 AM	BATTERY 20	C26	U	Inspection	PUSH	SIP	N	Opacity of 45% => Limit of 20%		OPER MAINT	Aug 26, 2014 8:20:24 PM		OPER MAINT	No Action Taken		
971918		Aug 20, 2014 11:03:00 AM	BATTERY 20	D24	U	Inspection	PUSH	SIP	N	Opacity of 40% => Limit of 20%		OPER MAINT	Aug 26, 2014 8:18:42 PM		OPER MAINT	No Cause Found	2014-08-26	Peak duct temperature 318 F. Avg suction: 0.6 in
994429		Aug 29, 2014 9:13:00 AM	BATTERY 20	C27	U	Routine	PUSH	SIP	N	Opacity of 30% => Limit of 20%		HEATING	Aug 30, 2014 6:01:05 AM	Oct 4, 2014 3:54:05 PM	HEATING	xEnvPushDelays_Other_Other_MissingFound	2014-08-30	
990968		Sep 5, 2014 10:01:00 AM	BATTERY 20	B28	U	Routine	PUSH	SIP	N	Opacity of 35% => Limit of 20%	bd-cmd	OPER MAINT	Sep 10, 2014 9:10:27 AM		OPER MAINT	PEC Outage	2014-09-10	Hyad car out of service due to planned outage.
990982		Sep 5, 2014 10:31:00 AM	BATTERY 20	B29	U	Routine	PUSH	SIP	N	Opacity of 35% => Limit of 20%	bd-cmd	OPER MAINT	Sep 10, 2014 9:10:27 AM		OPER MAINT	Completed PEC Outage		
997963		Sep 15, 2014 9:28:00 AM	BATTERY 20	B20	U	Routine	PUSH	SIP	N	Opacity of 100% => Limit of 20%		HEATING	Sep 25, 2014 2:45:13 PM	Sep 26, 2014 10:45:00 AM	HEATING	xComment		Possible bedplate leakage on various flues. oven will be on extended coking time until repair is complete.
998196		Sep 19, 2014 7:11:00 AM	BATTERY 20	C13	U	Routine	PUSH	SIP	N	Opacity of 30% => Limit of 20%		OPER MAINT	Sep 19, 2014 9:50:09 AM		OPER MAINT	No Cause Found	2014-09-19	Peak duct temperature 280 F. Avg suction: 0.5 in.
1001924		Sep 21, 2014 8:45:00 AM	BATTERY 20	C27	U	Routine	PUSH	SIP	N	Opacity of 100% => Limit of 20%		HEATING	Sep 30, 2014 1:01:05 PM	Oct 4, 2014 3:54:05 PM	HEATING	xEnvPushDelays_CookOven_Leakage_GasRiser	2014-09-30	Various CS flues cool due to leaking bedplates and causing recirculating duct
1006889		Oct 7, 2014 12:24:00 PM	BATTERY 20	B03	U	Inspection	PUSH	SIP	N	Opacity of 30% => Limit of 20%		HEATING	Oct 29, 2014 4:27:36 PM	Nov 3, 2014 6:45:00 AM	HEATING	xEnvPushDelays_CookOven_Restriction_LoHGasPiping	2014-10-29	Found water in CS and flue passages
1008729		Oct 14, 2014 12:25:00 PM	BATTERY 20	A01	U	Inspection	PUSH	SIP	N	Opacity of 65% => Limit of 20%		HEATING	Oct 23, 2014 6:42:45 AM	Oct 31, 2014 9:18:00 AM	HEATING	reAdjustWall		Wall adjusted
1008727		Oct 14, 2014 12:20:00 PM	BATTERY 20	A03	U	Inspection	PUSH	SIP	N	Opacity of 65% => Limit of 20%		HEATING	Oct 23, 2014 6:48:28 AM	Nov 27, 2014 8:12:00 AM	HEATING	xEnvPushDelays_CookOven_Restriction_GasRiser	2014-10-23	debris restricting nozzles #14, 15, 17 in the A8 wall and restrictions in #11, 14-17 in the A10 wall.
1009916		Oct 21, 2014 2:03:00 PM	BATTERY 20	B14	U	Inspection	PUSH	SIP	N	Opacity of 65% => Limit of 20%		HEATING			HEATING	xEnvPushDelays_CookOven_Leakage_GasRiser	2014-10-29	Found hot nozzle tips CS, will inspect and patch
1010161		Oct 28, 2014 8:27:00 AM	BATTERY 20	B27	U	Routine	PUSH	SIP	N	Opacity of 40% => Limit of 20%		HEATING	Nov 3, 2014 12:04:00 PM	Nov 4, 2014 6:17:00 AM	HEATING	xEnvPushDelays_CookOven_Leakage_GasRiser	2014-10-29	Found hot nozzle tips #20 and #21 on the B27 wall
1012061	NOR	Dec 4, 2014 11:09:00 AM	BATTERY 20	C23	U	Inspection	PUSH	SIP	N	Opacity of 40% => Limit of 20%		HEATING	Dec 15, 2014 2:29:59 PM	Dec 16, 2014 9:30:00 AM	HEATING	cxDryGun		Risers leaks identified and patched.
1012054		Dec 4, 2014 11:18:00 AM	BATTERY 20	C27	U	Inspection	PUSH	SIP	N	Opacity of 40% => Limit of 20%		HEATING	Dec 10, 2014 2:29:59 PM		HEATING	cxDryGun		Risers leaks identified and patched.
1020831		Dec 11, 2014 7:49:00 AM	BATTERY 20	B23	U	Routine	PUSH	SIP	N	Opacity of 60% => Limit of 20%		HEATING			HEATING	xEnvPushDelays_CookOven_Leakage_GasRiser	2014-12-15	B23 wall 4-7 ps flues are dead from some oak riser deterioration
1021302		Dec 13, 2014 9:51:00 AM	BATTERY 20	B02	U	Routine	PUSH	SIP	N	Opacity of 60% => Limit of 20%		HEATING	Dec 26, 2014 12:17:00 PM	Dec 26, 2014 11:40:00 AM	HEATING	cxDryGun	2014-12-18	4-5 ps flues flooded. 6,7 ps flues dry opened in
1021433		Dec 14, 2014 6:19:00 AM	BATTERY 20	B29	U	Routine	PUSH	SIP	N	Opacity of 50% => Limit of 20%		HEATING			HEATING	xEnvPushDelays_CookOven_Leakage_Repaired	2014-12-15	Plugged waste gas recirculating duct 4-5 ps both walls. Flues cleaned up
1021501		Dec 15, 2014 10:31:00 AM	BATTERY 20	B29	U	Routine	PUSH	SIP	N	Opacity of 80% => Limit of 20%		OPER MAINT	Dec 26, 2014 9:10:36 AM		OPER MAINT	No Cause Found	2014-12-26	Peak duct temperature 223 F. Avg suction: 0.6 in.

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Exceedance Root Causes Tracking Lo. orrective Action Dates/Responses

REFERENCE NUMBER	EVENT STATUS	INSPECT DATE	FACILITY	OVEN	AGENCY	INSPECTION REASON	INSPECTION TYPE	AFFECTED STANDARD	DEVIATION_%	EVENT DESCRIPTION	BREAKDOWN	ROOT CAUSE AREA	CORR ACTION RESPONSE DATE	DATE CA EFFECTIVE	ROOT CAUSE AREA	ROOT CAUSE/ CA RESPONSE	ROOT CAUSE/ CA DATE	ACTION DESCRIPTION
982294		Aug 11, 2014 2:49:00 PM	BATTERY B	B03	U	Inspection	PUSH	SIP	N	Opacity of 40% => Limit of 20%		HEATING	Nov 19, 2014 9:11:07 AM		HEATING	KtrvPushDelays_CoolOven_Resection_Flue(s)	2014-11-19	Low flue temperatures
993103		Sep 18, 2014 1:53:00 PM	BATTERY B	A11	U	Inspection	PUSH	SIP	N	Opacity of 25% => Limit of 20%	bd-cmd	OPER MAINT	Oct 3, 2014 2:23:17 PM		OPER MAINT	Shed breakdown	2014-09-29	Flow 424,000 cfm. Leak noted in area of A9 of shed.
1004831		Oct 7, 2014 1:33:00 PM	BATTERY B	B06	U	Inspection	PUSH	SIP	N	Opacity of 35% => Limit of 20%	bd-cmd	HEATING	Nov 19, 2014 8:53:37 AM		HEATING	KtrvPushDelays_CoolOven_Resection_Flue(s)	2014-11-19	Low flue temperatures
1009478		Oct 20, 2014 12:38:00 PM	BATTERY B	A08	U	Inspection	PUSH	SIP	N	Opacity of 25% => Limit of 20%	bd-cmd	HEATING	Nov 19, 2014 8:52:29 AM		HEATING	caRuddedFlue		Rodded flues on both walls
1009477		Oct 20, 2014 12:40:00 PM	BATTERY B	B13	U	Inspection	PUSH	SIP	N	Opacity of 75% => Limit of 20%	bd-cmd	HEATING	Nov 19, 2014 8:51:08 AM		HEATING	caRuddedFlue		Rodded flues on both walls
1017156		Nov 25, 2014 1:48:00 PM	BATTERY B	A01	U	Inspection	PUSH	SIP	N	Opacity of 35% => Limit of 20%		OPERATION	Nov 25, 2014 4:09:26 PM		OPERATION	Other Root Cause	2014-11-25	notified personel