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
375001		Jul 6, 2014 2:00:03 AM	BATTERY 13	A02	U	Routine	STACK 80%	SIP	N	14 Avg => 60%	bd-cmd	HEATING			HEATING	XStack_Other_Other_NothingFound	2014-07-08	FRESH WATER ON SOUTHEND LEAKING - VALUE WAS SHUT OFF FOR MAKEUP AND FLUSHING UNTIL FIXED - WATER MAY HAVE LEAKED INTO FLUE
991910		Aug 20, 2014 11:00:03 AM	BATTERY 13	B11	U	Routine	STACK 80%	SIP	N	1 Avg => 60%		HEATING			HEATING	XStack_Operational_Operational_OpacityDuringCharge	2014-08-20	
992632		Aug 23, 2014 9:00:03 AM	BATTERY 13	B24	U	Routine	STACK 80%	SIP	N	19 Avg => 60%		HEATING			HEATING	XStack_OvenInteriorLeakage_Refractory_Hole	2014-08-24	71% OPACITY, C/S HOLE
996408		Sep 7, 2014 5:00:03 PM	BATTERY 13	A27	U	Routine	STACK 80%	SIP	N	4 Avg => 60%		HEATING			HEATING	XStack_OvenInteriorLeakage_Refractory_Jamb	2014-09-07	OVEN INTERIOR LEAKAGE ON COKE SIDE WALLS OFF AND GAS OFF
1004739		Oct 14, 2014 11:00:03 AM	BATTERY 13		U	Routine	STACK 80%	SIP	N	6 Avg => 60%	bd-cmd	HEATING			HEATING	XStack_PoulGas_PoulGas_AckersAfgIsfunction	2014-10-14	CALLED IN A BREAKDOWN
1012880		Nov 6, 2014 9:00:03 AM	BATTERY 13		U	Routine	STACK 80%	SIP	N	19 Avg => 60%	bd-cmd	HEATING	Nov 6, 2014 12:58:42 PM		HEATING	XStack_CombustionSystem_Gas_BreakUPGas	2014-11-06	Heaters working gas regulator impulse line raised gas volume on Battery, break down called in

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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	DATA CA EFFECTIVE	ROOT CAUSE AREA	ROOT CAUSE / CA RESPONSE	ROOT CAUSE / CA DATE	ACTION DESCRIPTION
989594		Jul 26, 2014 2:00:03 PM	BATTERY 14		U	Routine	STACK 60%	SIP	N	34 Rdg => 60%	bd-cmd	HEATING			HEATING	XStack_Other_Other_NothingFound	2014-07-26	OPACITN DUE TO LOSS OF STACK DRAFT
991738		Aug 19, 2014 3:00:03 PM	BATTERY 14	B23	U	Routine	STACK 60%	SIP	N	1 Rdg => 60%		HEATING			HEATING	XStack_Operational_Operational_OpacityDuringCharge	2014-08-19	OPACITN SUBSIDED AFTER LEVEL WAS MADE
991775		Aug 19, 2014 9:00:03 PM	BATTERY 14	B02	U	Routine	STACK 60%	SIP	N	3 Rdg => 60%		HEATING			HEATING	XStack_Operational_Operational_OpacityDuringCharge	2014-08-20	OPACITN DROPPED AFTER CHARGE WAS
997989		Sep 13, 2014 3:00:03 PM	BATTERY 14	B29	U	Routine	STACK 60%	SIP	N	1 Rdg => 60%		HEATING			HEATING	XStack_OvenInteriorLeakage_Refractory_DeterioratePatch	2014-09-13	Opacity during charge, south wall was sprayed on CS charged late
1000742		Sep 19, 2014 5:00:03 PM	BATTERY 14	B18	U	Routine	STACK 60%	SIP	N	15 Rdg => 60%		HEATING			HEATING	XStack_OvenInteriorLeakage_Refractory_DeterioratePatch	2014-09-18	Checked next time pushed
1007451		Oct 9, 2014 9:00:03 AM	BATTERY 14	B18	U	Routine	STACK 60%	SIP	N	1 Rdg => 60%		HEATING	Oct 16, 2014 12:53:17 PM		HEATING	caOvenmore		Oven is under repair
1008087		Oct 14, 2014 2:00:03 AM	BATTERY 14		U	Routine	STACK 60%	SIP	N	25 Rdg => 60%	bd-cmd	HEATING			HEATING	XStack_Other_Other_FaselReading	2014-10-14	DRAFT BUTTERFLY STUCK - WENT TO GAS OFF - PINNED BUTTERFLY
1008732		Oct 14, 2014 11:00:03 AM	BATTERY 14		U	Routine	STACK 60%	SIP	N	33 Rdg => 60%	bd-cmd	HEATING			HEATING	XStack_FoulGas_FoulGas_AskariaMalfunction	2014-10-14	CALLED IN BREAKDOWN ASKANIA MOTOR BEING REPLACED
1008758		Oct 14, 2014 12:00:03 PM	BATTERY 14		U	Routine	STACK 60%	SIP	N	33 Rdg => 60%	bd-cmd	HEATING			HEATING	XStack_FoulGas_FoulGas_AskariaMalfunction	2014-10-14	CALLED IN BREAKDOWN ASKANIA MOTOR BEING REPLACED

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Exceedance Root Causes Tracking L[illegible] Corrective Action Dates/Responses

REFERENCE NUMBER	EVENT STATUS	INSPECT DATE	FACILITY	OVEN	AGENCY	INSPECTION REASON	INSPECTION TYPE	AFFECTED STANDARD	OPERATING_TM	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
974995		Jul 4, 2014 1:00:03 PM	BATTERY 15	A05	U	Routine	STACK 60%	SIP	N	14 Rdg => 60%	bd-end	OPERATION S			OPERATIO NS	Extended time (decarb/oxeng)	2014-07-05	EXTENDED COKING TIME - WALLS TURN OFF LATE
993400		Jul 23, 2014 12:00:03 PM	BATTERY 15	B22	U	Routine	STACK 60%	SIP	N	5 Rdg => 60%		HEATING			HEATING	XStack_Operational_Operational_OpacityDuringCharge	2014-07-23	10:48 HR OVEN,WALLS WERE NOT OFF DUE TO STICKER SAMETIME
994010		Jul 24, 2014 6:00:03 PM	BATTERY 15	B19	U	Routine	STACK 60%	SIP	N	7 Rdg => 60%		HEATING			HEATING	XStack_Operational_Operational_OpacityDuringCharge	2014-07-24	HARD PUSH,CHECK NEXT TIME DUE
995936		Jul 28, 2014 9:00:03 AM	BATTERY 15		U	Routine	STACK 60%	SIP	N	2 Rdg => 60%		HEATING	Jul 28, 2014 12:52:35 PM		HEATING	caComment	2014-07-28	ER notified
998243		Aug 6, 2014 12:00:03 PM	BATTERY 15	A12	U	Routine	STACK 60%	SIP	N	8 Rdg => 60%		HEATING			HEATING	XStack_OvenInteriorLeakage_Refractory_FaceBrick	2014-08-06	Leakage on the ok. Needs sprayed
999211		Aug 21, 2014 4:00:03 PM	BATTERY 15	B28	U	Routine	STACK 60%	SIP	N	3 Rdg => 60%		HEATING			HEATING	XStack_OvenInteriorLeakage_Refractory_Jamb	2014-08-21	
999896		Aug 24, 2014 9:00:03 PM	BATTERY 15	A09	U	Routine	STACK 60%	SIP	N	1 Rdg => 60%		HEATING			HEATING	XStack_OvenInteriorLeakage_Refractory_Hole	2014-08-24	Opacity during charge, walls were off, may have hole on PS, baseline after walls were turn back on
999902		Aug 24, 2014 9:00:03 PM	BATTERY 15	B11	U	Routine	STACK 60%	SIP	N	1 Rdg => 60%		HEATING			HEATING	XStack_OvenInteriorLeakage_Refractory_Jamb	2014-08-24	Opacity during charge, walls were off, check next time due
999000		Aug 25, 2014 9:00:03 AM	BATTERY 15	B20	U	Routine	STACK 60%	SIP	N	12 Rdg => 60%		HEATING	Aug 26, 2014 8:22:39 AM		HEATING	XStack_Operational_Operational_DecarbT	2014-08-26	1 hour 18 minute decarb time
999988		Sep 5, 2014 9:00:03 AM	BATTERY 15	A05	U	Routine	STACK 60%	SIP	N	16 Rdg => 60%		HEATING			HEATING	XStack_Operational_Operational_OpacityDuringCharge	2014-09-05	Opacity during charge, extended coking time has been problem oven
990071		Sep 5, 2014 8:00:03 PM	BATTERY 15	B19	U	Routine	STACK 60%	SIP	N	8 Rdg => 60%		HEATING			HEATING	XStack_Operational_Operational_DecarbT	2014-09-05	EXTENDED DECARB TIME
990245		Sep 6, 2014 10:00:03 PM	BATTERY 15	A03	U	Routine	STACK 60%	SIP	N	3 Rdg => 60%		HEATING			HEATING	XStack_Operational_Operational_OpacityDuringCharge	2014-09-07	
990692		Sep 14, 2014 1:00:03 AM	BATTERY 15	A03	U	Routine	STACK 60%	SIP	N	4 Rdg => 60%		OPERATION S			OPERATIO NS	All Data Good	2014-09-18	Opacity on charge only
1000186		Sep 18, 2014 1:00:03 PM	BATTERY 15	A28	U	Routine	STACK 60%	SIP	N	37 Rdg => 60%	bd-end	HEATING			HEATING	XStack_OvenInteriorLeakage_Refractory_DeterioratedFace	2014-09-18	
1000704		Sep 18, 2014 2:00:03 PM	BATTERY 15	A28	U	Routine	STACK 60%	SIP	N	17 Rdg => 60%	bd-end	HEATING			HEATING	XStack_OvenInteriorLeakage_Refractory_DeterioratedFace	2014-09-18	
1001810		Sep 20, 2014 8:00:03 AM	BATTERY 15	A17	U	Routine	STACK 60%	SIP	N	4 Rdg => 60%	bd-end	HEATING			HEATING	XStack_Operational_Operational_BlockedBurnerHead	2014-09-20	OPACITY WHILE WAITING FOR LEVEL [illegible] 31 MIN DECARB.
1001865		Sep 22, 2014 4:00:03 PM	BATTERY 15	B12	U	Routine	STACK 60%	SIP	N	8 Rdg => 60%		HEATING			HEATING	XStack_OvenInteriorLeakage_Refractory_DeterioratedFaceB	2014-09-22	WILL CHECK NEXT TIME DUE. DID SUBSIDE ONCE OVEN WAS LEVELED.
1003412		Sep 27, 2014 3:00:03 AM	BATTERY 15	A05	U	Routine	STACK 60%	SIP	N	8 Rdg => 60%		HEATING			HEATING	XStack_Operational_Operational_OpacityDuringCharge	2014-09-27	OPACITY DURING CHARGE - OVEN SEEMS TO HAVE LEAKAGE
1004896		Oct 1, 2014 4:00:03 PM	BATTERY 15	A16	U	Routine	STACK 60%	SIP	N	3 Rdg => 60%	bd-end	HEATING			HEATING	XStack_OvenInteriorLeakage_Refractory_Hole	2014-10-01	FIRST CHARGE AFTER REPAIR
1004913		Oct 1, 2014 5:00:03 PM	BATTERY 15	A18	U	Routine	STACK 60%	SIP	N	2 Rdg => 60%	bd-end	HEATING			HEATING	XStack_OvenInteriorLeakage_Refractory_Hole	2014-10-01	FIRST CHARGE AFTER REPAIR
1005165		Oct 2, 2014 11:00:03 AM	BATTERY 15	A02	U	Routine	STACK 60%	SIP	N	5 Rdg => 60%		HEATING			HEATING	XStack_OvenInteriorLeakage_Refractory_Jamb	2014-10-02	
1006120		Oct 3, 2014 10:00:03 AM	BATTERY 15	B18	U	Routine	STACK 60%	SIP	N	2 Rdg => 60%		HEATING	Oct 3, 2014 12:48:01 PM		HEATING	XStack_Operational_Operational_BlockedBurnerHead	2014-10-03	Blocked burnerhead, waiting for oven to be pushed
1006814		Oct 6, 2014 3:00:03 PM	BATTERY 15	A04	U	Routine	STACK 60%	SIP	N	9 Rdg => 60%		HEATING			HEATING	XStack_OvenInteriorLeakage_Refractory_Jamb	2014-10-06	WILL OBSERVE NEXT TIME DUE
1007157		Oct 8, 2014 6:00:03 AM	BATTERY 15	B12	U	Routine	STACK 60%	SIP	N	5 Rdg => 60%		HEATING			HEATING	XStack_OvenInteriorLeakage_Refractory_Jamb	2014-10-08	PS leak to be inspected when guided tomorrow
1008124		Oct 11, 2014 10:00:03 AM	BATTERY 15	A10	U	Routine	STACK 60%	SIP	N	1 Rdg => 60%		HEATING			HEATING	XStack_OvenInteriorLeakage_Refractory_Jamb	2014-10-11	OVEN INTERIOR LEAKAGE ON CONE SIDE.
1008419		Oct 12, 2014 11:00:03 AM	BATTERY 15	A18	U	Routine	STACK 60%	SIP	N	2 Rdg => 60%	bd-end	HEATING			HEATING	XStack_OvenInteriorLeakage_Refractory_Jamb	2014-10-13	OPACITY WITH WALLS OFF,EMPTY FOR EXTENDED PERIOD OF TIME FOR REPAIR.
1008587		Oct 13, 2014 11:00:03 AM	BATTERY 15	A07	U	Routine	STACK 60%	SIP	N	3 Rdg => 60%		HEATING			HEATING	XStack_OvenInteriorLeakage_Refractory_Jamb	2014-10-13	NO LEAK WILL CHECK NEXT TIME DUE
1009798		Oct 22, 2014 10:00:03 AM	BATTERY 15	B17	U	Routine	STACK 60%	SIP	N	1 Rdg => 60%		HEATING			HEATING	XStack_Operational_Operational_OpacityDuringCharge	2014-10-22	OPACITY DURING CHARGE-SIDES OVEN
1011994		Oct 31, 2014 11:00:03 PM	BATTERY 15	A08	U	Routine	STACK 60%	SIP	N	5 Rdg => 60%		HEATING	Nov 2, 2014 12:12:16 PM		HEATING	XStack_Operational_Operational_OpacityDuringCharge	2014-11-05	Opacity only the time when changed
1012763		Nov 5, 2014 2:00:03 PM	BATTERY 15	A08	U	Routine	STACK 60%	SIP	N	9 Rdg => 60%	bd-end	HEATING	Nov 6, 2014 7:08:48 AM		HEATING	caComment		complete
1017994		Nov 27, 2014 9:00:03 AM	BATTERY 15	B28	U	Routine	STACK 60%	SIP	N	5 Rdg => 60%	bd-end	HEATING			HEATING	XStack_Operational_Operational_DecarbT	2014-11-27	TROUBLE WITH OVEN DOOR AND DOOR MACHINE EXTEND DECARB TIME
1020604		Dec 10, 2014 9:00:03 PM	BATTERY 15	B17	U	Routine	STACK 60%	SIP	N	9 Rdg => 60%		HEATING			HEATING	XStack_OvenInteriorLeakage_Refractory_Hole	2014-12-10	hole in wall, pusher side

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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
977641		Jul 10, 2014 5:00:03 PM	BATTERY 19	B26	U	Routine	STACK 60%	SIP	N	1 Rdg => 60%		HEATING			HEATING	XStack_OvenInternorLeakage_Refractory_Horizontal	2014-07-19	SLURRY SPRAN
981508		Jul 18, 2014 1:00:03 AM	BATTERY 19	B18	U	Routine	STACK 60%	SIP	N	18 Rdg => 60%		HEATING			HEATING	XStack_OvenInternorLeakage_Refractory_Jamb	2014-07-19	need to look at next time due
997710		Sep 12, 2014 10:00:03 AM	BATTERY 19	A21	U	Routine	STACK 60%	SIP	N	8 Rdg => 60%		HEATING			HEATING	XStack_OvenInternorLeakage_Refractory_Jamb	2014-09-12	
1000019		Sep 19, 2014 10:00:03 AM	BATTERY 19	A22	U	Routine	STACK 60%	SIP	N	9 Rdg => 60%		HEATING			HEATING	XStack_OvenInternorLeakage_Refractory_Jamb	2014-09-19	
1005872		Oct 4, 2014 11:00:03 AM	BATTERY 19	A21	U	Routine	STACK 60%	SIP	N	2 Rdg => 60%	bd-cmd	HEATING			HEATING	XStack_OvenInternorLeakage_Refractory_Jamb	2014-10-04	opacity first time charge after repair no beneficial carbon in oven purge oven
1009218		Oct 18, 2014 11:00:03 AM	BATTERY 19	A23	U	Routine	STACK 60%	SIP	N	3 Rdg => 60%	bd-cmd	HEATING			HEATING	XStack_OvenInternorLeakage_Refractory_Jamb	2014-10-18	

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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
973861		Jul 2, 2014 5:00:03 PM	BATTERY 20	B19	U	Routine	STACK 60%	SIP	N	7 Rdg => 60%		HEATING	Jul 2, 2014 9:28:10 PM		HEATING	caNotRedOperations		
997918		Jul 10, 2014 4:00:03 PM	BATTERY 20	C02	U	Routine	STACK 60%	SIP	N	31 Rdg => 60%	hd-rmd	HEATING	Jul 11, 2014 8:11:58 AM		HEATING	XStack_Operational_Operational_ExtendedCoAngTime	2014-07-11	OVEN WAS BARK FOR TRACK 20B
997239		Sep 11, 2014 2:00:03 AM	BATTERY 20		U	Routine	STACK 60%	SIP	N	1 Rdg => 60%		HEATING	Sep 12, 2014 1:48:24 PM		HEATING	XStack_CombustionSystem_Gas_ExcessUPGas	2014-09-12	
1003621		Sep 25, 2014 5:00:03 PM	BATTERY 20	B25	U	Routine	STACK 60%	SIP	N	4 Rdg => 60%		HEATING			HEATING	XStack_Operational_Operational_DecarbIT	2014-09-26	

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Exceedance Root Causes Tracking L Corrective Action Dates/Responses

REFERENCE NUMBER	EVENT STATUS	INSPECT DATE	FACILITY	OVEN	ASSET	INSPECTION REASON	INSPECTION TYPE	APPROVED 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
974047		Jul 4, 2014 4:00:03 AM	BATTERY B	B19	U	Routine	STACK 60%	SIP	N	3 Rdg => 60%	No cmt	HEATING	May 21, 2014 9:00:35 AM		HEATING	XStack_Operational_Operational_Desanb7	2014-07-04	NOTIFIED OPERATIOS MANAGER TO CHARGE
984065		Jul 24, 2014 8:00:03 PM	BATTERY B	B06	U	Routine	STACK 60%	SIP	N	4 Rdg => 60%		HEATING	May 21, 2014 8:07:03 AM		HEATING	XStack_Other_Other_Nothingfound	2014-07-24	Double cycle oven extended coking time.
994715		Aug 19, 2014 7:00:03 PM	BATTERY B		U	Routine	STACK 60%	SIP	N	16 Rdg => 60%		HEATING	Aug 20, 2014 12:07:58 PM		HEATING	noCommend		WORKS and 87% returned to normal levels.
1010904		Oct 20, 2014 7:00:03 PM	BATTERY B	A11	U	Routine	STACK 60%	SIP	N	8 Rdg => 60%		HEATING	Nov 19, 2014 8:48:33 AM		HEATING	XOtaxx_Overhtkenvt.Leakage_Refractory_Jamb	2014-10-28	Deteriorated patch on pusher side.
1024863		Dec 24, 2014 10:00:03 AM	BATTERY B	B10	U	Routine	STACK 60%	SIP	N	18 Rdg => 60%		HEATING	Dec 25, 2014 4:41:44 AM		HEATING	noCommend		dry gun and dusted

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