	DELTA EXTERIOR SYSTEMS (DEXSYS)	Document Code: ENV-36
M MAGNA	Procedure	Issue Date: 3/1/19
	Malfunction Abatement Plan	Approved by: Sean Guyett Signature on file

MALFUNCTION ABATEMENT PLAN

FOR THE

EISENMANN RTO CAPTURE AND CONTROL SYSTEM



VALVELESS REGENERATIVE THERMAL OXIDIZER SYSTEM

DexSys is a Tier I supplier of automotive fascias for the automotive industry. Parts are formed through injection molding of plastic resins, painted a color to match the intended automotive body, and then assembled to meet OEM specifications.

The Eisenmann paint line is dedicated to applying primer, base, and clear coat applications to the plastic automotive parts. The paint line is a fully enclosed conveyorized paint line, consisting of a five stage wash system, dry-off oven, six fully automated paint spray booths (prime, base, clear), a Dewatering cure oven, a Radiant oven, and a final Convection cure oven. Each of the six booths is equipped with downdraft water wash particulate control system. The water is recirculated through an on-site Sludge / Palin system, designed to remove the particulate from the water.

The air flow into and out of the enclosed paint system is treated as a Non-Fugitive Enclosure (NFE). Air flow direction is such that all VOC containing air streams are directed inward, relative to the enclosure and collected for control. The exhaust from the six paint booths, Dewatering cure oven, Radiant oven, and final cure oven are collected in a common header and directed to a regenerative thermal oxidizer (Eisenmann RTO). The air flow from the booths is 90% recirculated, to allow for a more concentrated air stream being directed to RTO.

The enclosure is continuously monitored to confirm air flow direction. Pressure is monitored at the entrance of the adhesion promoter booth and at the end of the convection oven/beginning of cooling tunnel 3. The differential pressure between the entrance and the exit is used to verify that air is being directed inward. A data point is recorded and logged at each location every 15 minutes. The previous twelve 15 minute data points are averaged together to generate the 3 hours average. Both the 15 minute and 3 hour averages are made from data collected during paint operating time. Email notification will be sent to all pertinent employees at a minimum if the previous 15 minutes is above -0.007 inWc.

The Eisenmann 7.2 VRTO has a design air flow rating of 34,600 scfm, a thermal efficiency of 95% and a destruction efficiency of 95%.

The VRTO has a single, rotary distributor filled with 1 inch random-pack ceramic media. Inlet / outlet air plenums are located beneath the beds with a combustion / retention chamber located above the beds which connects the two media canisters. There is a single burner which maintains the retention chamber temperature and has a design retention time of 1.0 seconds.

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The process air is directed through the first ceramic media bed where it uses the heat from the pre-heated bed to raise the exhaust gas temperature. Once the air leaves the first can it enters the combustion zone where a natural gas fired burner further elevates the process air to a temperature greater than 1500 °F where the VOCs are oxidized into carbon dioxide and water. The oxidized process air then flows out of the combustion zone and through the second ceramic media bed where the process air gives up its heat to the ceramic media prior to entering the outlet plenum on its way to the being discharged from the exhaust stack.

Table 1 presents the operational set points of the RTO.

Parameter	Units	Range / Setpoint
Combustion Chamber Temperature	° F	1500 - 1600
Bypass Valve position	Open/Closed	Closed
Booth Differential Pressure	inWc	< -0.007

The RTO is equipped with an operating computer system which monitors the above listed parameters as well as fan motor temperatures, fan bearing temperatures, rotor motor amperage, burner operation, and process air flow. If the process senses an exceedance of any of the operational parameters an alarm is triggered and the oxidizer and process shuts down automatically. There are monthly inspections to verify the operation of automatic line shutdown system in the event of an open bypass valve.

In the event of a shutdown of the RTO, the production process will automatically stop operation. This is accomplished with an inter-lock system on the application robots. The conveyor line will remain operating in order for the company to retrieve painted parts in the cure ovens.

The following table is a list of potential malfunctions and the planned response for each malfunction.

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Parameter	Operating Variable	Monitoring Method	Responsibility	Corrective Procedure or Operational Change in the Event of a Malfunction
Combustion Zone Temperature	1,500 – 1,600 °F	Thermocouple	Maintenance Manager	If temperature is below 1500°F, coating operations shut down automatically – Maintenance staff will investigate and make repairs as necessary
Booth Differential Pressure	< -0.007	Pressure Sensors	Maintenance Manager	If the 3-hour average is >-0.007, coating operations shut down automatically – Maintenance staff will investigate and make repairs as necessary
Exhaust Fan Failure	Blower Running	Speed Feedback and Amperage Monitoring	Maintenance Manager	If exhaust fan fails, coating operations shut down automatically – Maintenance staff will investigate and make repairs as necessary
Bypass Valve	Closed Bypass Valve	Continuous Position Monitoring	Maintenance Manager	If bypass valve is opened, coating operations shut down automatically – Maintenance staff will investigate and take action as necessary

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PREVENTIVE MAINTENANCE PLAN - RTO

The operation of the Regenerative Thermal Oxidizers (RTO) is critical to the operation of the paint line (Eisenmann VRTO). Therefore, the facility has a routine maintenance program to ensure that the RTO is operating properly which in turns minimizes malfunctions resulting in a loss of production on the either press. In addition to the periodic checks performed by facility staff, the company contracts with an outside service to perform annual inspection of the unit.

The following is a schedule of the routine maintenance performed on the unit, supervised by the Paint Maintenance Manager.

Frequency	RTO	Equipment -	Task
	Equipment - Group	Specific	
Daily			Check for unusual temperature trends.
			Check & record rotor motor amps.
			Check & record flame signal of burner.
			Check & record general operation parameters of the VRTO-C.
			Check combustion chamber/burner flame through the sight glass.
			Visually examine system (gas train, fans, gearmotor, flexes, ducts, dampers, and doors). Listen for strange new noises.
			Check for excess vibration on fans
Weekly			Check & record exhaust fan bearings (inboard & outboard) temperatures.
Monthly			Open door to lower section and visually inspect. Check rotor, seals & internal flex connectors.
			Grease fan bearings. See exact schedule listen on fan.
		-	
Quarterly			Grease/lubricate damper bearings, linkages, actuators, & door hinges.

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			Hand operate/turn spare gearmotor to
			keep bearings/ gears ansamed.
Semi-annually			Trip all safety devices see faults on block
Senn-annuany			
			,
			0
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			-
			- 0
			Hand operate/turn spare gearmotor to keep bearings/gears unsullied. Trip all safety devices, see faults on block schematic. Grease UV joint. Both knuckles and spline with special high temperature grease. Remove blind flanges or access doors in exhaust ductwork and inspect. Any unusual to excessive deposits have to be removed. When going into the duct make sure the lines have been purged and the inspection doors in the duct are open to ensure ventilation. Also, respect any OSHA rules for confined spaces. Inspect the vessel lower section and ductwork. Clean and remove any flammable condensed liquids or particulate. Check all damper operation by moving them into their extreme position (Manual operation from panel). Make sure limit switches are reached. Clean lens of UV scanner. Check stuffing boxes if applicable. Check stuffing boxes if applicable. Check bolts for tightness. Especially fan bearing bolts. Examine combustion chamber. Check ceramic block, insulation and steel baskets. Inspect burner. Check spark plug & pilot. Examine piping for pressure switches. Check combustion blower filter & clean/replace when necessary. Examine rotor. Check gap & seal condition. Grease rotor bearing with special high temp. grease. Clean gas filter/screen (watch, listen & smell for leaks in gas train). Eisenmann guided inspection.
			5
			-
			1
	with special high temperature grease. Remove blind flanges or access doors in exhaust ductwork and inspect. Any unusual to excessive deposits have be removed. When going into the duct make sure the lines have been purged at the inspection doors in the duct are operation and the duct are operation and the duct are operation and the duct are operation from panel). Make sure limit switches are reached. Clean lens of UV scanner. Check stuffing boxes if applicable. Check bolts for tightness. Especially fat bearing bolts. Examine combust		
			Examine rotor. Check gap & seal condition.
			Grease rotor bearing with special high
			temp. grease.
Annually			Clean gas filter/screen (watch, listen &
			-

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		Clean out and re-lubricate all fan bearings.
		Grease motors.
Every 2 years		Check battery on PLC and replace if needed.
		Change gearmotor lubricant. It is suggested to install and new gearmotor and internally examine the old one. Replace seals & bearings. Keep as spare and repeat process every 2 years with operating gearbox.

The Maintenance Manager will maintain on file a log of all preventive maintenance activities to demonstrate compliance with this Malfunction Abatement Plan.

A list of recommended spare parts has been supplied to ensure the unit functions as intended.



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nse- tive	Spare Parts- List-No.	Level	Pos. in Higher Level Drawing	Complete Description	EISENMANN- Drawing-No/Format/Index	EISENMANN- Item-No.	Manufacturer	Length	Width	Unit of Measure- ment	EISENMANN-Ordering- No.	Total Quantity On-Hand	Manufacturer Recommended for Stock Keeping	Pa Clas ficat
0016	6575928-34	3	1	CORD, SILICONE SPONGE, 7/8" DIA, MEDIUM HARD,		6575928-34	Eisenmann			FT	6575928-34	45 FT	45 FT	N
0006	6575928-34	3	1	GRAPHITE ROPE SEAL 5/8" TEMP RATING 650 C		A3501-03	Eisenmann			FT	A3501-03	125 FT	125 FT	w
0004	6575928-3.2			ROTOR SPRINGS TYPE VD-414AF, 4008 N, 1.4310 SS		A0551-10	Eisenmann			EACH	A0551-10	12	42	F
1004	6575928-3.1		1	25 MM ID X 41 MM OD X 130 MM LONG SPANNER NUT M90 X 4 WITH BRASS SET SCREWS	a706-901-215-05-01-32	6575928-3.1	Eisenmann			EACH	6575928-3.1	2	2	F
1015	6575928-39 6575928-43	3	1	HI-TEMP BEARING GREASE MCG-132 THERMOCOUPLE, TYPE K, DUPLEX	000001210000102	A2511-08 A4220-0124	Eisenmann Pyromation			EACH	A2511-08 A4220-0124	2	2	V
1021 1022	6575928-44 6575928-42	3	1	THERMOCOUPLE, TYPE K, DUPLEX THERMOCOUPL 50" MgO INSULATED		A4220-0224 6575928-42	Pyromation Pyromation			EACH EACH	A4220-0224 6575928-42	2	2	F
1002	6575928-38	3	1	SOLID LUBE ROTOR BEARING 110 MM ID X 190 MM OD X 48 MM THK		A2535-18	Eisenmann			EACH	A2535-18	1	1	1
0005	6575928-3.3	3	1	CENTER SPRING, 1" BAR DIA, 6" O.D.		A1701-56	Eisenmann			EACH	A1701-56	1	1	
0007	6575928-30 6575928-25 6575928-37	3 3	1	DRIVE SHAFT, GEARMOTOR 1.0 RPM 1.5HP 230/460 VAC UNIVERSAL JOINT DRIVESHAFT SERIES 1810	u706-901-320-05-01-11	6575928-30 6575928-25	Eisenmann SEW			EACH EACH	6575928-30 6575928-25	1	1	
0012	6575928-37	3	1	UNIVERSAL JOINT DRIVESHAFT SERIES 1810 SEAL, PTFE TEFLON,3 5/8" DIA SHAFT, HOLLOW SHAFT GEAR DRIVE	U706-094-06/4	6575928-37 6575928-33	Eisenmann Eisenmann			EACH	6575928-37 6575928-33	1	1	,
1013	6575928-32		1	SPECIAL DURALON INSERT, HOLLOW SHAFT GEAR DRIVE, 3 5/8" DIA, SHAFT		A2530-01	Eisenmann			EACH	A2530-01	1	1	
1017	6575928-46	3	1	PRESSURE SWITCH, SPDT SWITCH, 0.15*-0.50* W.C.		6575928-46	Dwyer			EACH	6575928-46	1	1	
024 031	7499493-2 6575928-4.3	3 3	1	UV FLAME DETECTOR SPARK IGNITOR, 47789		A4620-42 6575928-4.3	Eisenmann Maxon			EACH EACH	A4620-42 6575928-4.3	1	1	
033 034	6575928-5.1 6575928-5.2	3	1	PRESSURE GAUGE 0-60 PSI #1070438 PRESSURE GAUGE 0-60"WC/MM #1055435	1159060-B01 1159060-B01	6575928-5.1 6575928-5.2	Maxon Maxon			EACH EACH	6575928-5.1 6575928-5.2	1	1 1	_
035 036	6575928-5.3 6575928-5.4	3 3	1	PRESSURE GAUGE 0-15 PSI #1055427 PRESSURE GAUGE 0-5 PSI #1055432	1159060-B01 1159060-B01	6575928-5.3 6575928-5.4	Maxon			EACH EACH	6575928-5.3 6575928-5.4	1	1	
037	6575928-5.5	3	1	PRESSURE SWITCH 10" - 250" WC #1061325 PRESSURE REGULATOR 0.75" CNFGD	1159060-B01	6575928-5.5	Maxon			EACH	6575928-5.5	1	1	-
038	6575928-5.6	3	1	W/ 12-28" WC SPRING 0.25" ORIFICE MODEL 496 #.75 496	1159060-B01	6575928-5.6	Sensus			EACH	6575928-5.6	1	1	
039	6575928-5.7	3	1	PRESSURE REGULATOR 2.0" CNFGD PILT OP, W/INT CTL # 2 243RPCB MODUTROL CONTROL MOTOR	1159060-B01	6575928-5.7	Sensus			EACH	6575928-5.7	1	1	
040	6575928-5.8	3	1	120v 300IN-LBS #1037073	1159060-B01	6575928-5.8	Honeywell			EACH	6575928-5.8	1	1	
042 043	6575928-5.10 6575928-5.11	3	1	VALVE ASSEMBLY 1.5" MA11 CNFGD #250 S MA11 PRESSURE SWITCH DWYER #1046766	1159060-B01 1159060-B01	6575928-5.10 6575928-5.11	Maxon DWYER			EACH EACH	6575928-5.10 6575928-5.11	2	1	-
043	6575928-5.12	3	1	ASCO .75" 2WAY AUT SOLND VLV, NC 120/60, 11 0/50 GP/WT #28697	1159060-B01	6575928-5.12	ASCO			EACH	6575928-5.12	2	1	
052	6575928-8.3 6575928-9	3	1	INTAKE FILTER ROTOR INNER FLEX CONNECTOR,	BF502037-003-00	6575928-8.3 6575928-9	Twin City Fan		-	EACH	6575928-8.3 6575928-9	1		
066	6575928-10	3	1	ROTOR OUTER FLEX CONNECTOR, CLX ETHERNET, SINGLE CHANNEL RJ45, 10/100,		6575928-10	Eisenmann			EACH	6575928-10	1	1	-
073 074	1231778-1.1 1231778-1.2	3	1	64 CONNECTIONS, AB #1756-ENBT DIGITAL AC INPUT, AB #1756-IA16		1231778-1.1	Allen Bradley Allen Bradley			EACH EACH	1231778-1.1 1231778-1.2	2	1	_
075 076	1231778-1.3 1231778-1.4	3	1	ANALOG INPUT CARD, AB #1756-IF8 THERMOCOUPLE INPUT CARD, AB #1756-IT6I			Allen Bradley Allen Bradley			EACH	1231778-1.3 1231778-1.4	2	1	-
077	1231778-1.5	3	1	CONTROLLOGIX, CPU, L71, W/2M MEMORY, AB #1756-L71		1231778-1.5	Allen Bradley			EACH	1231778-1.5	1	1	
078	1231778-1.6	3	1	DIGITAL AC OUTPUT, AB #1756-OA16 PLC, 16 PT, AC, ISOLATED DIGITAL OUTPUT		1231778-1.6	Allen Bradley			EACH	1231778-1.6	2	1	-
)79)80	1231778-1.7 1231778-1.8	3	1	CARD, AB #1756-OA16I ANALOG OUTPUT CARD, AB #1756-OF8		1231778-1.7 1231778-1.8	Allen Bradley Allen Bradley			EACH EACH	1231778-1.7 1231778-1.8	1	1	_
081	1231778-1.9	3	1	CONTROLLOGIX POWER SUPPLY, 85-265 VAC, (13 Amp @ 5V), AB #1756-PA75		1231778-1.9	Allen Bradley			EACH	1231778-1.9	1	1	
182	1231778-1.10	3	1	FUSE BLOCK, 600V, 1P, 0-30AMP, 250V, CLASS R, MERSEN #20306R		1231778-1.10	Mersen			EACH	1231778-1.10	1	1	
183	1231778-1.11	3	1	VFD, PF40,400, ETHERNET COMM ADAPTER, AB #22-COMM-E		1231778-1.11	Allen Bradley			EACH	1231778-1.11	2	1	
084	1231778-1.12	3	1	FUSE, CLASS CC, TIME DELAY, 600V, 6A, MERSEN #ATDR6 FLUORSCENT BULB, 120VAC, 24* LONG, 20		1231778-1.12	Mersen			EACH	1231778-1.12	6	1	
085	1231778-1.13	3	1	WATT, GE FANUC #F20T12CW FUSE, MIDGET 250VAC, 2 AMP,13/32X1-1/2,		1231778-1.13	GE Fanuc			EACH	1231778-1.13	1	1	_
086	1231778-1.14	3	1	BUSSMANN #FNM-2 FUSE, MIDGET 250VAC, 3 AMP,13/32X1-1/2,		1231778-1.14	Bussmann			EACH	1231778-1.14	2	1	_
087	1231778-1.15	3	1	BUSSMANN #FNM-3 FUSE, MIDGET 250VAC, 4 AMP,13/32X1-1/2,		1231778-1.15	Bussmann			EACH	1231778-1.15	3	1	
088	1231778-1.16	3	1	BUSSMANN #FNM-4 FUSE, MIDGET 250VAC, 5 AMP,13/32X1-1/2,		1231778-1.16	Bussmann			EACH	1231778-1.16	8	1	-
089	1231778-1.17	3	1	BUSSMANN #FNM-5 FUSE, CLASS CC 600VAC, 12 AMP,13/32X1-1/2,		1231778-1.17	Bussmann			EACH	1231778-1.17	1	1	-
090	1231778-1.18	3	1	BUSSMANN #FNQ-R-12 FUSE, CLASS J, DUAL ELEMENT TIME DELAY		1231778-1.18	Bussmann Bussmann			EACH EACH	1231778-1.18	2	1	
	1231778-1.19	3	1	FUSE, 600V, 150A, BUSSMANN #LPJ-150SP FUSE, CLASS J, DUAL ELEMENT TIME DELAY FUSE, 600V, 300A, BUSSMANN #LPJ-300SP		1231778-1.19	Bussmann			EACH	1231778-1.19	3		
092	1231778-1.20		1	FUSE, 600V, 300A, BUSSMANN #LPJ-300SP FUSE, CLASS J, DUAL ELEMENT TIME DELAY FUSE, 600V, 500A, BUSSMANN #LPJ-500SP		1231778-1.20	Bussmann			EACH	1231778-1.21	3	1	
094	1231778-1.22		1	FUSE, CLASS J, DUAL ELEMENT TIME DELAY FUSE, 600V, 80A, BUSSMANN #LPJ-80SP		1231778-1.22				EACH	1231778-1.22	3	1	
095	1231778-1.23	3	1	FUSE, CLASS J, DUAL ELEMENT TIME DELAY FUSE, 600V, 8A, BUSSMANN #LPJ-8SP		1231778-1.23	Bussmann			EACH	1231778-1.23	3	1	Γ
096	1231778-1.24	3	1	FUSE, 125VAC 3 AMP TIME DELAY FUSE, MERSEN #TRM3		1231778-1.24	Mersen			EACH	1231778-1.24	1	1	
001 008	6575928-3 6575928-26	3 3	1	ROTOR, 2140 DIA. 304 SS, 11 SPOKE ADAPTER PLATE,	u706-901-215-10-01	6575928-3 6575928-26	Eisenmann			EACH EACH	6575928-3 6575928-26	1	0	
009 010	6575928-31 6575928-35	3 3	1	COMPRESSION COVER COMPANION FLANGE		6575928-31 6575928-35	Elsenmann			EACH EACH	6575928-31 6575928-35	2	0	
)23)25	6575928-51 6575928-45	3 3	1	PEEP SITE ASSEMBLY PRESSURE TRANSMITTER -20 +5"WC		A0501-50 6575928-45	Eclipse Inc ABB			EACH EACH	A0501-50 6575928-45	1	0	+
026	6575928-1	3	1	CERAMIC BLOCK, LANTEC MLM-200, 12" X 12" X 4" BLOCK SIZE		A0520-03	Lantec Products, Inc			EACH	A0520-03	2480	0	
027	6575928-1.1	3	1	PORCELAIN CERAMIC SADDLE 1", IN BOX OF 1 OR 2 CUBIC FT.		A0520-04	Lantec Products, Inc			EACH	A0520-04	220	0	
)28)29	6575928-4 6575928-4.1	3 3	1	BURNER, 18 MMBTU/HR, MAXON 9M BLCK GSKT, 48440		6575928-4 6575928-4.1	Maxon Maxon			EACH EACH	6575928-4 6575928-4.1	1	0	
030	6575928-4.2	3	1	9M KINEDIZER BLCK ASY, 57458 NATURAL GAS PIPE TRAIN, FOR 9MMBTU/HR	4450000 571	6575928-4.2	Maxon			EACH	6575928-4.2	1	0	-
132	6575928-5 6575928-5.9	3	1	BURNER AND NGC VALVE ASSEMBLY 2.5" M SYNCHRO #2.5M SYNCHRO	1159060-B01 1159060-B01	6575928-5 6575928-5.9	Maxon Maxon			EACH EACH	6575928-5 6575928-5.9	1	0	
141 145	6575928-5.9 7499493-1	3	1	#2.5M SYNCHRO 10" BUTTERFLY VALVE IGNITION CABLE, CLEAR., 275 DEG, F	1159060-B01 1159060-B01	6575928-5.9 7499493-1	Maxon Maxon			EACH	6575928-5.9 7499493-1	1	0	
46	6575928-5.13	3	1	IGNITION CABLE, CLEAR., 275 DEG. F (100/ROLL) SPARK PLUG CONNECTOR. INSULATED.		A4610-01	Maxon			EACH	A4610-01	1	0	
047	6575928-5.14	3	1	STRAIGHT INSULATED RIGHT ANGLE SPARK, PLUG		A4620-01	Maxon			EACH	A4620-01	1	0	-
048	6575928-5.15	3	1	CONNECTOR BLOWER, COMBUSTION, CW, 42* W.C. 2400		A4620-03	Maxon			EACH	A4620-03	1	0	-
049	6575928-8	3	1	SCFM W/8" DSCHG MOTOR 30 HP, 324 TS FRAME, 3600 RPM,	BF502037-003-00	6575928-8	Twin City Fan			EACH	6575928-8	1	0	
)50)51	6575928-8.1 6575928-8.2	3 3	1	230/460/3/60, ALUMINUM WHEEL FAN	BF502037-003-00 BF502037-003-00	6575928-8.1 6575928-8.2	Baldor Twin City Fan			EACH EACH	6575928-8.1 6575928-8.2	1	0	
153	6575928-6	3	1	PROCESS FAN, 200 HP, CW, 18.5" W.C. 40,333 ACFM	502037-002-00	6575928-6	Twin City Fan			EACH	6575928-6	1	0	
154 155	6575928-6.1 6575928-6.2	3	1	MOTOR 200 HP, 1800 RPM, 3/60/460, FAN WHEEL	502037-002-00 502037-002-00	6575928-6.1 6575928-6.2	Baldor Twin City Fan			EACH	6575928-6.1 6575928-6.2	1	0	-
156	6575928-7	3	1	PURGE BYPASS FAN, 75HP, CW, 4* W.C. 34,600 ACFM MOTOR 75HP, 1800RPM, 3/60/460	502037-002-00	6575928-7	Twin City Fan		L	EACH	6575928-7	1	0	1
157 158	6575928-7.1 6575928-7.2	3 3	1	FAN WHEEL	502037-002-00 502037-002-00	6575928-7.1 6575928-7.2	Baldor Twin City Fan			EACH EACH	6575928-7.1 6575928-7.2	1	0	
)59	6575928-18	3	1	PURGE AIR DAMPERS, 18" DIA W/ ELECTRIC ACTUATOR FRESH AIR DAMPER 20" DIA W/ ELECTRIC		6575928-18	Eisenmann		L	EACH	6575928-18	1	0	
060	6575928-17	3	1	FRESH AIR DAMPER 20" DIA W/ ELECTRIC ACTUATOR INLET DAMPER 20" X 60 1/4" W/ ELECTRIC		6575928-17	Eisenmann			EACH	6575928-17	1	0	
061	6575928-22	3	1	INLET DAMPER 20" X 60 1/4" W/ ELECTRIC ACTUATOR INLET DAMPER 21 3/8" X 63 3/8" ELECTRIC		6575928-22	Eisenmann			EACH	6575928-22	1	0	
062	6575928-21	3	1	ACTUATOR OUTLET DAMPER 29" X 38 7/8" W/ ELECTRIC		6575928-21	Eisenmann			EACH	6575928-21	1	0	_
063	6575928-20	3	1	ACTUATOR RTO OUTLET DAMPER 36" X 60" W/ ELECTRIC		6575928-20	Eisenmann			EACH	6575928-20	1	0	
064	6575928-19 6575928-12	3	1	ACTUATOR PROCESS FAN INLET FLEX CONNECTOR		6578928-19 6575928-12	Eisenmann Eisenmann			EACH EACH	6575928-19 6575928-12	1	0	
068	6575928-11	3	1	PROCESS FAN OUTLET FLEX CONNECTOR		6575928-11	Eisenmann			EACH	6575928-11	1	0	-
069	6575928-14	3	1	PURGE BYPASS FAN INLET FLEX CONNECTOR		6575928-14	Eisenmann			EACH	6575928-14	1	0	
	6575928-13	3	1	PURGE BYPASS FAN OUTLET FLEX CONNECTOR		6575928-13	Eisenmann	1	1	EACH	6575928-13	•	0	1

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	RTO Spare Parts	

List.xls

(contents of file pasted above file icon)

DexSys will maintain spare parts as recommended for items that cannot be received within 24 hours upon ordering.

DATA COLLECTION AND AUTO ELECTRONIC NOTIFICATION SYSTEM

DexSys records pressure differential data from the paint line as well as temperature data and bypass valve position for the RTO. For these systems, a data point is recorded and logged at each location in 15 minute intervals. The previous twelve 15 minute data points are averaged together to generate the 3 hour average. Both 15min and 3hr averages are collected while the paint line is operating. DexSys retains records of 15min and 3hr average data.

Email notifications are sent to all pertinent employees if the most recent 15min data point of pressure differential data is above -0.007 inWc. Email notifications will also be sent to all pertinent employees if the most recent 15 min data point for RTO temperature drops under 1500° F or if the most recent 15 min data point for the bypass valve indicates that it is open.

If the bypass valve is opened, the 3 hour average for the pressure differential data is above - 0.007 inWc, or if the 3 hour average of RTO temperature is under 1500°F, painting operations will automatically stop. Painting operations will resume once compliance is achieved and the system is verified to be operating correctly.

FUGITIVE EMISSION MINIMIZATION PLAN

Fugitive emissions are generated whenever solvent containing materials are exposed to atmospheric conditions. To minimize these emissions, all materials are to remain in closed containers until their use is required.

Interlock System

The paint application system in each booth will be equipped with an interlock to the RTO such that if the RTO were to fail, all units would shut down operation. In the event of an unforeseen failure and to prevent disruption to the customer, DexSys may bypass the interlock and would limit emissions to only manufacture what the customer requires for a 24 hour period while servicing the RTO to working condition. DexSys will notify the District Supervisor via phone in

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the event of such an incident and follow-up the incident with a written report of the findings and corrective actions.

Date	Revision	Prepared by
6/17/15	Initial release	Kristen Zielinski
3/1/19	Revised list of preventative maintenance items to better match items in the RTO manual. Added revision log.	Tim Gibbons