



## Field Service Evaluation and Repair Document

Customer:	Tech:	Location:
Contact 1:	Service :	
Contact 2:	Date:	

### Generator information

Line Identity	Part# / Voltage	Serial #	Duty Cycle				
			Hours per day	Days per week	Month	Bi-annual	Annual

### MTBF Component List

Component	MTBF	Current hours	Will MTBF be reached before next PM?	
			Yes	No
Power supply fan	20,000 hours		<input type="checkbox"/>	<input type="checkbox"/>
Module cooling fan	20,000 hours		<input type="checkbox"/>	<input type="checkbox"/>
Compressor (internal only)	15,000 hours		<input type="checkbox"/>	<input type="checkbox"/>

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## Individual Component Checks & Inspection Results

Pre-check				Post-check			
Component	Condition	Pass	Fail	Action taken	Suggested action	Pass	Fail
Interior surfaces		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Fan grill/screen/filter		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Reactor fan(s)		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Reactor heat sink		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Power supply fan(s)		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Power supply heat sink		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Air supply filtration		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Compressed air water trap/auto drain		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Door safety switch		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
E-stop shunt trip activation		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Air supply solenoid valve (SGA series)		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Air pressure relief valve (SGC and PC series)		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Compressor		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Compressor filter(s)		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Feed gas flow meter		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Feed gas flow switch activation		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Hand/off/auto switch		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Air supply pressure gauge		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Reactor pressure gauge		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>

Pre-check				Post-check			
Component	Condition	Pass	Fail	Action taken	Suggested action	Pass	Fail
Pressure test ( must hold 15 psi for 60 sec.)		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Electrical connections and terminals		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Dissolved ozone analyzer		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Ambient ozone analyzer		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Ambient ozone sensor (system shutdown)		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
ORP analyzer		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Back pressure control valve		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Water back flow ball valve		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Teflon tubing		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Oxygen concentrator back suction prevention		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Back flow prevention		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Destruct and destruct heater		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Off gas water trap/auto drain		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Water flow switch		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Water level switch		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Pump		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Pump seal		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Injector check valve (internal)		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Backup injector check valve (stainless)		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Injector suction		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Ozone seals and fittings		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>

Component	Specification	Actual result	Action taken	Suggested action	Pass	Fail
O2 concentration (overall)	>80%				<input type="checkbox"/>	<input type="checkbox"/>
Compressed air supply pressure	=30 PSI				<input type="checkbox"/>	<input type="checkbox"/>
Reactor pressure	1-12 psig				<input type="checkbox"/>	<input type="checkbox"/>
Gas flow					<input type="checkbox"/>	<input type="checkbox"/>
Flow switch activation point	5 scfh				<input type="checkbox"/>	<input type="checkbox"/>
Injector inlet pressure					<input type="checkbox"/>	<input type="checkbox"/>
Injector outlet pressure					<input type="checkbox"/>	<input type="checkbox"/>
Response to external signal (analog)	Proportional				<input type="checkbox"/>	<input type="checkbox"/>
Response to external signal (digital)	On/off				<input type="checkbox"/>	<input type="checkbox"/>
Control knob response	Proportional				<input type="checkbox"/>	<input type="checkbox"/>
External signal override	Proportional				<input type="checkbox"/>	<input type="checkbox"/>
Ambient ozone gas detector	On/off relay at set point				<input type="checkbox"/>	<input type="checkbox"/>
Dissolved ozone analyzer	Must equal grab sample				<input type="checkbox"/>	<input type="checkbox"/>

**Comments & Discussion -Elements of Ozone**

Item	Element of Ozone	Supplied by	Satisfactory
2	Ozone Generation		<input type="checkbox"/>
3	Ozone Mass Transfer & off-gas management		<input type="checkbox"/>
4	Ozone Controls & Monitoring		<input type="checkbox"/>
5	Process Controls & application design		<input type="checkbox"/>

Comments, discussion, and notes	
<b>Feed gas preparation:</b>	
<b>Ozone Generation:</b>	
<b>Ozone Mass Transfer &amp; off-gas management:</b>	
<b>Ozone Controls &amp; Monitoring:</b>	
<b>Process Controls &amp; application design:</b>	

