



3132 Wilford Drive
Toledo, Ohio 43617

CCS&ES, INC.
OXIDIZER MECHANICAL INSPECTION REPORT

PLANT: _____ **LINE # :** _____ **DATE:** _____

OXIDIZER TYPE: RTO _____ RECOUP _____ CATALYTIC _____

MACHINE CONDITION / OPERATION:

- A - GOOD C - NEEDS ADJUSTMENT E - NEEDS REPLACEMENT IMMEDIATELY
B - FAIR D - NEEDS REPLACEMENT

ITEM	CONDITION	COMMENTS
EXTERIOR		
DUCTWORK		
1. Cladding		
2. Insulation		
3. Leaks, tears, etc.		
4. Corrosion		
OXIDIZER SHELL		
1. General condition		
2. Leaks, cracks, etc.		
3. Bucking, hot spots		
4. Outer skin and paint		
ACCESS DOORS		
1. Seals		
2. Insulation		
3. Bolts		
4. Flanges		
5. Hot spots		
6. Burner chamber access doors		
7. Ceramic media cold face access doors		
8. Poppet valve access doors		
COMPRESSED AIR TRAIN		
1. Filters / Dryer		
2. Regulator / Gauges		
3. Compressed air supply		
4. Accumulator tank(s)		
5. Weather protection / insulation, heat tape		
NATURAL GAS TRAIN		
1. Leaks		
2. Gauges		
3. Backload sensing lines		
4. Regulator		
Firing Rate Control Valve #1		
1. Mounting / linkage		
2. Lubrication / freedom of travel		
3. Weather protection		

ITEM	CONDITION	COMMENTS
Firing Rate Control Valve #2		
1. Mounting / linkage		
2. Lubrication / freedom of travel		
3. Weather protection		
BURNER #1		
1. Flame rod (if applicable) replaced?		
2. Flame rod part number		
3. U.V. scanner - mounting, connections, purge line, & lens		
4. Spark igniter—check mounting, clean & gap		
5. Was spark igniter replaced?		
6. Spark igniter part number		
7. Gasketing – condition, leaks		
BURNER #2		
1. Flame rod (if applicable) replaced?		
2. Flame rod part number		
3. U.V. scanner – mounting, connections, purge line, & lens		
4. Spark igniter—check mounting, clean & gap		
5. Was spark igniter replaced?		
6. Spark igniter part number		
7. Gasketing – condition, leaks		
COMBUSTION FAN and MOTOR ASSEM.		
1. Belts / sheaves		
2. Bearings / lubrication		
3. Record mfg. recommend greasing freq.		
4. Record recommended grease product		
5. Special application instructions apply?		
6. Fan mounting / Anchors		
7. Inlet filters		
SYS. EXHAUST FAN & MOTOR ASSEMBLY		
1. Belts / sheaves		
2. Bearings / lubrication		
3. Record mfg. recommend greasing freq.		
4. Record recommended grease product		
5. Special application instructions apply?		
6. Fan mounting / Anchors		
7. Insulation / cladding		
SYS. HEAT RETURN FAN & ASSEMBLY		
1. Belts / sheaves		
2. Bearings / lubrication		
3. Record mfg. recommend greasing freq.		
4. Record recommended grease product		
5. Special application instructions apply?		
6. Fan mounting / Anchors		
7. Insulation / cladding		

ITEM	CONDITION	COMMENTS
EXPANSION JOINTS / FLEX JOINTS		
1. Exhaust fan inlet / outlet flex joints		
2. Heat return inlet / outlet flex joints		
3. Combustion fan inlet / outlet flex joints		
4. Plant exhaust duct flex joints		
5. Heat return duct flex joints		
POPPET VALVES		
1. Bearings		
2. Movement		
3. Seating / seals		
4. Pneumatic Cylinders		
5. Shaft Wear / Alignment		
6. Switching solenoids		
7. Exhaust ports		
DAMPERS		
Check alignment, markings, quadrants, seals, Linkage, free movement, position indicators, blade-to-shaft movement, etc.		
1. System inlet damper – process air		
2. Fresh air / dilution air inlet damper(s)		
3. Atmospheric bypass damper(s)		
4. Manual balancing damper(s)		
5. Hot air bypass damper		
EXHAUST STACK		
1. General condition – Check for corrosion, cracks, leaks, missing hardware, buckling, excessive vibration, buildup, loose / damaged stack supports.		
2. Rain protection / Stack drain – check base of stack for build-up of moisture. Drain as necessary. Check serviceability of drain.		
3. Stack testing ports – check accessibility of test ports.		
INTERIOR		
RETENTION CHAMBER / REACTOR		
1. Tears, leaks, buckling, etc.		
2. Wall Insulation		
3. Floor insulation		
4. Ceiling insulation		
HEAT EXCHANGER		
1. Fouling/condensate build-up		
2. Corrosion		
3. Tears, leaks, buckling, etc.		
4. Tube condition		
5. Tube contact		
6. Tube perforation		
7. Tube sheets		
8. Drain plugs		

COMMENTS: