

# Boiler Safety Device Testing Data Sheet

## Department of Veterans Affairs Facility

Boiler No. \_\_\_\_\_

Date \_\_\_\_\_

Boiler Make, Type and Model, Year Built \_\_\_\_\_

Burner Make, Type, Fuels, Year Built \_\_\_\_\_

Test Personnel/Company \_\_\_\_\_

VA Personnel \_\_\_\_\_

	Operation - Trip Point	Normal System Operation	Remarks - Device OK/Adjusted/Replaced
<b>Pressure Vessel</b>			
High water alarm	inches up	Normal water level _____ inches up	
Low water alarm	inches up		
Low water cutout (slow drain)	inches up		
Aux low water cutout (slow drain)	inches up		
Low water cutout shunt switch	OK Failed		
Aux low water cutout shunt switch	OK Failed		
High steam press cutout (recycle)	psi	Header _____ psi	
High steam press cutout (non-recycle)	psi		
Steam safety valve No. 1 - pop	psi	Set _____ psi	
- blowdown	psi		
Steam safety valve No. 2 - pop	psi	Set _____ psi	
- blowdown	psi		
Steam safety valve No. 3 - pop	psi	Set _____ psi	
- blowdown	psi		
Steam safety valve accumulation test	OK Failed		

<b>Main Gas</b>			
High pressure cutoff	psi/in.wc	PRV set at _____ psi/in.wc	
Low pressure cutoff	psi/in.wc		
Safety shut off valves proof of closure	OK Failed		
Leak test safety shut off valves (seats)	OK Failed		
Leak test vent valve (seats)	OK Failed		

<b>Oil</b>			
High pressure cutoff	psi	Operating _____ psi	
Low pressure cutoff	psi		
High temperature cutoff (heated oil)	degrees F	Operating _____ deg F	
Low temperature cutoff (heated oil)	degrees F		
Low atomizing pressure (No. 1 switch)	psi	psi	
Low atomizing pressure (No. 2 switch)	psi		
Low atomizing/oil differential pressure	psi	psi	
Oil burner position switch (if provided)	OK Failed		
Safety shut off valves proof of closure	OK Failed		
Leak test safety shut off valves (seats)	OK Failed		
Cold start steam atom burners on compr air	OK Failed		
LP gas igniter operation	OK Failed		
Atomizing air compressor motor interlock	OK Failed		

<b>Igniter Gas (Pilot)</b>			
Low gas pressure	psi/in. WC	psi/in. WC	
Leak test safety shut off valves (seats)	OK Failed		
Leak test vent valve (seats)	OK Failed		

<b>Combustion Air, Flue Gas, Burner Management Programming</b>			
Forced draft fan motor energized interlock	OK Failed		
Forced draft damper wide open for purge	OK Failed		
Outlet dmptr (if provided) wide open for purge	OK Failed		
Prepurge airflow interlock	in. WC	in. WC @100%	
Prepurge timing	sec	sec	
Ignition timing	sec	10 sec*	
Postpurge timing	sec	15 sec	
Low fire position interlock	OK Failed		
Combustion air flow interlock	in. WC	in.WC min	
Low flue gas oxygen interlock	%O2		
High /furnace/boiler outlet/ pressure (if prov)	in. WC	in. WC	
Pneumatic control air press interlock (if prov)	psi	psi	
FGR damper(if provided) set for prepurge	OK Failed		
Main flame out - time to close SSO valves	sec	4 sec	
Ignition flame out - programmed shutdown	sec	sec	
Minimum igniter flame test	OK Failed		
Scanner not sensing ignition spark (UV only)	OK Failed		

\* 15 seconds allowed on No. 5 and No. 6 oil.