BOILER INFORMATION				
NC NO:	Date:			
Note Violations Here:				
Inspection Interval:	INITIAL / INTERVAL 2			
INSPECTOR NAME:	INSPECTOR SIGNATURE:			
	INSTECTOR SIGNATURE.			

CAUTION: The boiler has to be cleaned for inspection in order to identify defects. If the boiler is not clean do not proceed with visual or non-destructive examinations.

	For those items that are not applied DESCRIPTION	ACC	REJ	REMARKS
#1)KE BOX		REMARKS
	FRONT TUBESHEET		•	
	Check condition of the front tube sheet and thickness			
	around handhole openings;			
	Check condition of threaded openings and plugs;			
	Check condition of the rivets between the front tube			
	sheet and barrel;			
	Are tubes beaded back to the tube sheet?			
	Any signs of leakage?			
	Check condition of the smoke box shell, especially the lower areas.			
	Check inside the barrel and outside tubes for scale			
	and corrosion.			
	Check back side of tubesheet, especially around			
	handhole sealing surfaces.			
	Check tubesheet supports (through stays, supports, or			
	strong backs.).			
	Check inside rivet heads on lap or butt strap joints.			
	Check front bolster (front axle) attachment points			
	inside shell.			
#2		L/BARRI	EL	
	Check front bolster attachment points on shell			
	Check condition of tube sheet rivets.			
	Check condition of threaded openings and plugs.			
	Check radius rod attachment point.			
	Check attachment points of studs, castings,			
	brackets, accessories, etc.			
#2	SHEL	L/BARRI	EL	1
	Check piping and nozzle openings on shell			
	(feedwater nozzles, steam take off, water			
	column, etc.)			
	Check handhole openings in shell.			
	Lap seam or buttstrap?			
	1. Check for signs of leakage around seams			
	or joint rivets.			
	Identify and check any external contour that			
	does not appear normal.			
	Insulation or Insulation Jacket (Lagging)			
	1. Jacket - Does jacket cover any critical			
	areas or make them difficult to observe?			
	2. Is barrel pitted or corroded under jacket?			
#3		PER SHE	ЕТ	1
-	Check handhole openings.			
	Check for signs of seepage around attachment			
	points (wing sheets, axle supports, etc.)			
	Check condition of riveted seams joining			
	wrapper to throat sheet and rear head.			
	mapper to those sheet and real head.	I		1

For those items that are not applicable indicate "N/A" in REMARKS column.

	WRAPPER	SHEET C	ontinued	
	Check condition of riveted seams joining throat			
	sheet to barrel.			
	Check external shapes or contours that do not			
	appear normal.			
	Check for condition of staybolt heads any			
	seepage around them.			
	Check condition of threaded openings. (Remove			
	nipples and threads if necessary.)			
	Check internal surfaces for cracks, pits, and			
	material thickness and scale.			
	Check staybolt thickness and condition.			
	Check for scale and mud buildup in waterlegs			
	and wet bottoms.			
	Check for buildup of dirt and grease between or		T	
	behind attaching brackets such as wing sheets.			
	Check for presence and condition of blow down			
	valve.			
	Wet bottom boilers:			
	1. Check ash pan area for pits and staybolt			
	head condition.			
	2. Check inside bottom of wrapper and			
	staybolt condition.			
	3. Check condition of lap seam in wrapper.			
	4. Check condition of ash pan drain tube if			
	present.			
	5. Check condition of drain plug and			
	threads.			
	Check condition of studs, especially studs			
	holding hitches to bottom sheet.			
#4		m Dom	e I	
	Check for presence and condition of drainback			
	holes in shell if possible. Check condition of main line shutoff valve.			
	 Check piping on the main steam line. Check condition of dome seams and 			
	seams between dome and boiler shell.			
	2. Signs of seepage present?			
	3. Can interior seams be observed?			
	5. Cur menor scans be observed:			

between dome and boiler shell. 4. Signs of seepage present? 1. Can interior seams be observed? 5. Check for presence and condition of pressure gage. 2. Is there a siphon and what is its condition? 3. Is the gage readable from the operator's position? 4. Has the gage been calibrated or checked against another gage? 5. If a shutoff valve is present, its handle shall indicate open position, or the handle shall be wired open. Check gage for proper range. Check for presence and condition of Safety Valve. 1. Does it have its own inlet/outlet piping with no possibility of closure?	Safety Valve Information Mfg Size
 Check that the inlet pipe size is not smaller than the valve inlet size. Check that the outlet pipe size is not smaller than the valve outlet size. Is it a National Board capacity certified, ASME "V"/NB "VR" stamped valve of proper 	Set PSI Capacity
 5. Pressure and capacity rating for the boiler heating surface? 6. Does it have a try lever? 7. Is it sealed with a factory seal? 	

	DESCRIPTION	ACC	REJ	REMARKS
#5	WATER COLUMN AND GAGE GLASS			
	Check condition of try-cock valves and blowdown valves on column and glass.			
	Check condition of glass (cracks or scratches).			
	Are there signs of leaks around the water glass gaskets?			
#6	FIREBOX			

Check for bulges or abnormal shapes (What caused them?).	
Check seams around fire door.	
Check for sediment buildup over fire door opening rear head.	
Check for sediment buildup over peephole opening in wrapper sheet (where applicable).	
Check condition of fusible plug. (Must be removed for observation.) 1. Is it an ASME plug? 2. Check condition of top surface. (May need to brush it off.) 3. Check plug for signs of leakage between the tin center and brass casing. When fusible plug is removed, check crown sheet thickness at that location and thread	
condition.	
Fireside fusible plug must protrude a minimum of 3/4" into waterside.	
Fireside fusible plug may not protrude into fire area of more than one (1) in.	

	DESCRIPTION	ACC	REJ	REMARKS
#6	FIREBOX continued			
	Water glass calibration can only be done when crown sheet and fusible plug can be seen and measured. (A recommended minimum water level may be determined as follows: With engine sitting on level ground and water just observable at the bottom of the glass, the crown sheet should be covered by water a minimum of at least 2-1/2 in. plus on a full-size boiler. Check staybolt condition, especially near top surface of crown sheet.			
	Check through stays, strong backs, knee braces, etc. on rear head.			
	Check handhole openings, threaded openings and plugs in rear head.			
	Check condition of firebox tube sheet, and check if tubes are beaded back to the tube sheet.			

	Check condition of staybolt heads inside fire box.			
	Check condition and design of crown sheet. Is it			
	flat-topped or able to trap water? Is it free of scale?			
	DESCRIPTION	ACC	REJ	REMARKS
#7	EXTERNAL PIPING			
	Is black pipe (as opposed to galvanized) used?			
	Check for use of schedule 80 black pipe required between boiler and first valve.			
	Are fittings of proper pressure rating for maximum allowable operating pressure?			
	Are isolation valves present to shut off individual system lines? (blower, injector, etc.)			

	DESCRIPTION	ACC	REJ	REMARKS
#7	EXTERNAL	PIPING	continue	d
	Are two separate feedwater systems present?			
	Check piping for freeze damage.			
	Is all piping properly supported?			
	Fittings dates are to be stamped, stenciled or			
	recorded on boiler records.			
	Piping shall have a 20-year life, except for the			
	main steam line, which shall be evaluated			
	periodically as to remaining service life.			
	Alternatively, piping may be UT examined to			
	determine if the thickness is adequate and the			
	remaining life.			
	DESCRIPTION	ACC	REJ	REMARKS
#8	ADDITIONAL SAFETY DEVICES		1	
	GAGE GLASS			
	1. Are the connections to the boiler clean			
	and unobstructed?			
	2. Is the gage glass fitted with a safety			
	guard?			
	3. Does the gage glass have a drain?			
	4. Is the gage glass clean and clear?			
	TRY COCKS			
	1. Are the try cocks properly located?			
	2. Are the connections to the try cocks			
	clean and unobstructed?			
	3. If the boiler did not originally have try			
	cocks, a newly installed try cock shall be			
	installed 3" above the highest point on			
	the crown sheet.			