—					
1.	a. Identify types of heat treatment performed at your facility being audited:			-	
	Homogenize	Stress Relie	f	Normalize	
					-
	Heat Soak	Anneal		Tempering/Quenching	
					_
	Age Hardening				
	Other (Specify):				
	h Is heat-treating perf	formed to written procedu	urec		
	b. Is heat-treating performed to written procedures?			YesNoN/A	
	c. Is it readily availab	le to the operator?			YesNoN/A
2.	Are the heat treatment furnace loads?	operations performed by	y a continuous	process or individual	
	Continuous	Individual	Furnace L	oad	N/A
3.	If a continuous process (e.g. model numbers):	s is used, describe fully,	using specific	equipment identifications	N/A

NOTE - ALL QUESTIONS ON THIS AUDITOR'S PROCESS GUIDE IS CONSIDERED TO BE PRIORITY CODE "A"

	a. Identify heat source type:	
	b. Location:	
	~ .	
	c. Controls:	
	d. Placement of temperature monitoring equipment (i.e. thermocouples):	
4.	If individual furnace loads are heat treated, describe:	
		N/A
	a. Furnace type (e.g. car bottom, front load or side load). Include make or model number	
	a. I unace type (e.g. car bottom, nont load of side load). Include make of model number	
	if possible:	
	b. Burner controls, including method of on/off switching:	
	h Burner controls including method of on/off switching.	
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	c. Placement of temperature sensors (thermocouples):	
	- In oven	
	- On Product	
	d. Method of loading furnace/s:	
	e. Method of unloading furnace/s:	
	f. Method of cooling, including transport to cooling location:	
	g. Does the furnace have sufficient temperature sensing devices to insure uniform furnace temperature?	Vec No N/A
		YesNoN/A
6.		
0.	Does supplier's procedures address fuel source's requirements?	YesNoN/A
7.	a. Do supplier's equipment contain mercury?	
		YesNoN/A
	b. Is it identified?	YesNoN/A

	c. Are necessary controls in place to prevent contamination of the part?	YesNoN/A
8.	Do the procedures contain parameters, which meet applicable specifications (e.g. MIL-H-	
	6875, MIL-STD-1684) for time and temperature?	YesNoN/A
9.	Is a traveler or equivalent work process control document utilized?	YesNoN/A
10.	Does the work process control document contain requirements for time, temperature, cooling methods and documentation requirements?	YesNoN/A
11.	a. Are time at temperature charts produced? If not, describe alternative control/s used:	YesNoN/A
	b. Are the at-temperature charts traceable to the material?	YesNoN/A
12.	a. What is the method utilized to confirm successful heat treat to specific required mechanical properties (hardness, tensile testing, etc.).	N/A
	b. Does this method meet the specified requirement?	YesNo
	c. Does the procedure ensure test coupons are heat treated together with the material?	YesNoN/A

13.	Does the procedure document the process for resolving nonconformance on heat-treated material?	YesNoN/A
14.	Does the supplier have a system for calibration of the temperature control equipment? (E.g. controller, thermocouple, lead wire):	YesNoN/A
15.	Are heat treating equipment and test equipment (including hardness testing) identified in a manner to reflect (ISO 4.11.1)?	
	a. Personnel responsible for performing calibration inspection?	YesNoN/A
	b. Personnel responsible for calibration/inspection.	YesNoN/A
	c. Item identity or serial number.	YesNoN/A
	d. Is calibration current?	YesNoN/A
	f. If calibration is subcontracted, are sufficient subcontractor controls in place?	YesNoN/A
HEAT	TREAT OVEN SURVEY (MIL-STD-1684)	YesNoN/A

16.	Does the supplier have a system for heat treat oven/furnace survey?	
10.	boos the supplier have a system for heat treat over runace survey.	YesNoN/A
17		
17.	Has the survey been performed at the correct time interval?	
		YesNoN/A
18.	Has it been done at the correct temperature?	
		YesNoN/A
WITN	ESS HEAT TREAT WORK IN PROCESS AND RESPOND TO THE FOLLOWING:	
		Not ObservedSat
		Lingot N/A
		UnsatN/A
	Record number of samples reviewed:	
19.	Is/Are the furnaces and controllers calibrated?	
		SatUnsatN/A
20.	Is the temperature correct?	
20.		SatUnsatN/A
21.	Is the correct cooling method/medium being utilized?	
21.	is the correct cooling method/medium being utilized?	SatUnsatN/A
22.	Are personnel cognizant of parameters (time, temperature, cooling method) required by procedure/s and work instructions?	Sat Unact N/A
	procedure/s and work instructions?	SatUnsatN/A

23.	Are results being properly documented (furnace charts)?	SatUnsatN/A
24.	Are heat treat procedures/work control documents readily available to operators?	SatUnsatN/A
25.	Is traceability being maintained and is the material being heat-treated identified by heat number, batch number, serial number or equivalent to assure material control and prevent material mix up?	SatUnsatN/A
26.	Are test coupons being heat-treated together with the material?	SatUnsatN/A

Additional Comments/Concerns: