Annex C (Informative) Standard Procedure for Local Heating

This annex is not part of this standard but is included for informational purposes only.

Procedure Number:	Revision Number:	Date:
Governing Code:		
Workpiece Identification Number:		
Material Specification:		
Component Dimensions:		
Thermocouple, Heater, and Insulation L	ayout Drawing Number:	
	Thermal Cycle	
Heating Rate:	^_/hour (specify max. or min.)	above°
Hold Temperature Range:	° to°	
Minimum Hold Time:	hours Maxi	mum Hold Time: hours
Cooling Rate:	^_/hour (specify max. or min.)	above°
	Steps	
C1. Match procedure/drawings to wor appropriateness of specified thermal cyc		rkpiece identification number. Check the
Completed By:		Date:
C2. Install and test power/control equipecorders.	ipment, including power supplies,	temperature controllers, and temperature
Completed By:		Date:
C3. Check validity of calibration date o for each recorder.	n all temperature recorders. Enter seri-	al number and date of next calibration due
Serial number:	Date	e of Next calibration Due:
Serial number:	Date	e of Next calibration Due:
Serial number:	Date	e of Next calibration Due:
Serial number:	Date	e of Next calibration Due:
Completed By:		Date:

C4. Install thermocouples (including spares) per drawing/sketch using approved methods. Direct attachment by capacitor discharge welding (Annex A) is recommended.

Completed By:	Date:	
C5. Verify specified (per drawing/sketch) placement of	of thermocouples.	
Verified By:	(User's/Owner's Inspector) Date:	
C6. Install heat sources and insulation per drawing/sk	etch using approved method	ods.
Completed By:		Date:
C7. Verify specified (per drawing/sketch) placement of	of heat sources and insulat	ion before the start of heating.
Verified By:	(User's/O	wner's Inspector) Date:
C8. Install and connect thermocouple extension wire. mocouple polarity. Note that it may only be possible to	-	-
Completed By:	Date:	
C9. Install and connect power cables. Check operation	n of all heat sources.	
Completed By:		Date:
C10. Obtain approval to begin the heating operation.		
Approved By:	(User's/Owner's Inspector) Date:	
C11. Perform and document periodic checks during plies) and adherence to specified heating rate. If a devit appears that achieving the hold temperature will be should be notified and a decision should be made regardless of the should be made regardless.	viation occurs during heati difficult and requires exc	ng, follow approved corrective action. If essive time, the User/Owner's Inspector
Completed By:	Date:	Time:
Completed By:	Date:	Time:
Completed By:	Date:	Time:
C12. Verify the start of the hold period, i.e. all soak ba	and thermocouples are wit	thin the required temperature range.
Verified By:	(User's/Owner's Inspector) Date:	
C13. Perform and document periodic checks during the supplies) and adherence to required hold temperature a corrective action. A maximum time in the hold temper the maximum time limit will be exceeded, the User/O regarding whether to continue heating.	range. If a deviation occurs rature range may be specifi	s during the hold period, follow approved ied for certain materials. If it appears that
Completed By:	Date:	Time:
C14. Verify completion of the hold period, i.e. all so range for the minimum required time. Must be verified By:	d before the start of coolir	

C15. Perform and document periodic checks during cooling period, including equipment operation (recorder and power supplies) and adherence to specified cooling rate. If a deviation occurs during cooling, follow approved corrective action.

Completed By:	Date:	Time:
Completed By:	Date:	Time:
Completed By:	Date:	Time:

C16. Deactivate power/control equipment after the temperature is below that where cooling rate control is required.

Completed By:	Date:
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C17. Remove all equipment after the temperature is safe for personnel. Cut thermocouple wires and mark locations of attached thermocouples for light filing/grinding.

Completed By: _____ Date: _____

C18. Note any deviations such as heating rate, hold time and temperature, or cooling rate that occurred during the thermal cycle. If no deviations occurred, enter "None."

C19. Complete and submit to User's/Owner's Representative appropriate documentation in accordance with Standard Documentation Checklist (Annex B).

Received By: _____

(User's/Owner's Inspector) Date: