Annex <u>G</u> (Informative) Standard Procedure for Local Heating

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

Procedure No.:		Revision No.: Date:				
Governing Code:						
Workpiece Identification Number:						
Material Specification:						
Component Dimensions:						
Thermocouple, Heater, and Insulation Layout Drawin	ng Numb	per:				
T	Fhermal	Cycle				
Heating Rate:°	_/hour	(specify max. or min.) above	o			
Hold Temperature Range:	•	to	۰			
Minimum Hold Time:	hours	Maximum Hold Time:	hours			
Cooling Rate:°	_/hour	(specify max. or min.) above	°			
	Step	05				
<u>G1</u> . Match procedure/drawings to workpiece, including verification of workpiece identification number. Check the appropriateness of specified thermal cycle to the material and application.						
Completed by:		Date:				
<u>G</u> 2. Install and test power/control equipment, includin	ng power	supplies, temperature controllers, and temperature	recorders.			
Completed by:		Date:				
<u>G</u> 3. Check validity of calibration date on all temperature recorders. Enter serial number and date next calibration due for each recorder.						
Serial number:		Date Next Calibration Due:				
Serial number:		Date Next Calibration Due:				
Serial number:		Date Next Calibration Due:				
Serial number:		Date Next Calibration Due:				
Completed by:		Date:				
<u>G</u> 4. Install thermocouples (including spares) per drav discharge welding (Annex D) is recommended.	Install thermocouples (including spares) per drawing/sketch using approved methods. Direct attachment by capacitor discharge welding (Annex D) is recommended.					
Completed by:		Date:				

<u>G5</u>. Verify specified (per drawing/sketch) placement of thermocouples.

	Verified by:	(User's/Owner's Inspector)	Date:			
<u>G</u> 6.	Install heat sources and insulation per drawing/sket	ch using approved methods.				
	Completed by:		Date:			
<u>G</u> 7.	Verify specified (per drawing/sketch) placement of	the start of heating.				
	Verified by:	(User's/Owner's Inspector)	Date:			
<u>G</u> 8.	*	and connect thermocouple extension wire. Check operation of all thermocouples. Check for reversal of couple polarity. Note that it may only be possible to detect a double polarity reversal visually.				
	Completed by:		Date:			
<u>G</u> 9.	Install and connect power cables. Check operation	of all heat sources.				
	Completed by:		Date:			
<u>G</u> 10	Obtain approval to begin the heating operation.					
	Approved by:	(User's/Owner's Inspector)	Date:			
<u>G</u> 11	. Perform and document periodic checks during heati and adherence to specified heating rate. If a deviat it appears that achieving the hold temperature w Inspector should be notified and a decision made re	ion occurs during heating, follow a ill be difficult and requires exces	pproved corrective action. If sive time, the User/Owner's			
	Completed by:	Date:	Time:			
	Completed by:	Date:	Time:			
	Completed by:	Date:	Time:			
<u>G</u> 12	. Verify the start of the hold period, e.g., all soak bar	nd thermocouples are within the req	uired temperature range.			
	Verified by:	(User's/Owner's Inspector)	Date:			
<u>G</u> 13	. Perform and document periodic checks during the supplies) and adherence to required hold temperate approved corrective action. A maximum time in the If it appears that the maximum time limit will be decision made regarding whether to continue heating the supplication.	ture range. If a deviation occurs du e hold temperature range may be sp exceeded, the User/Owner's Inspec	ring the hold period, follow becified for certain materials.			
	Completed by:	Date:	Time:			
	Completed by:	Date:	Time:			
	Completed by:	Date:	Time:			
	Completed by:	Date:	Time:			
	Completed by:	Date:	Time:			
<u>G</u> 14	. Verify completion of the hold period, e.g., all soak range for the minimum required time. Must be veri		hin the required temperature			
	Verified by:	(User's/Owner's Inspector)	Date:			
<u>G</u> 15	Perform and document periodic checks during coo supplies) and adherence to specified cooling rate. I action.					
	Completed by:	Date:	Time:			
	Completed by:	Date:	Time:			
	Completed by:	Date:	Time:			

 \underline{G} 16. Deactivate power/control equipment after the temperature is below that where cooling rate control is required.

	Completed by:		Date:
<u>G</u> 17	Remove all equipment after the temperature is attached thermocouples for light filing/grinding	· · ·	wires and mark locations of
	Completed by:		Date:
<u>G</u> 18	Note any deviations such as heating rate, hold ti cycle. If no deviations occurred, enter "None."	me and temperature, or cooling rate that	t occurred during the thermal
	Completed by:		
G19	Complete and submit to User's/Owner's Representation Checklist (Annex \underline{H}).	esentative appropriate documentation i	in accordance with Standard
	Received by:	(User's/Owner's Representative)	Date: