Inspection Checklist

Always use together with OEM Instruction Manual!

Customer :		
Contact person :		
Location :		
Plasma systém :		
Cutting table :	-	
Additional info :	-	
Date :	-	
Comment to check points :		
P - Performed NP - Not present in system ! - Important Inspection * 1 bar = 14,504 psi (pound-force ** 1 gallon (US) = 3,785 l and conve	•	nch) and conversely 1 psi = 0,069 bar = 0,264 gallons (US)
Torch main body		
! P NP	1	Inspect and eventually change the water tube (in case of HPR or HSD torches)
! P NP	2	Inspect & clean anode current contact ring (in case of HPR torches)
! P NP	3	Inspect & clean threads on torch front end
! P NP	4	Inspect torch o-rings (application a thin film of silicone to each o-ring)
! P NP	5	Inspect torch head-to-torch QD connections (in case of two-piece torches)
Consumables		
! P NP	6	Inspect use of correct part numbers according to proper operation data for cutting material and its thiskness
! P NP	7	Visually inspect each component (electrode, nozzle, swirl ring, etc.) before installing due to the eventual damage (during transport, after disassembling from the torch, etc.)
! P NP	8	Inspect application a thin film of silicone to each o-ring located on consumables
I D ND	0	Inspect the proper installation of parts (asserting to QEM or TMT instructions)

Gas flows					
P	NP	10	Visua	ally inspect plumbing from gas supply	
	P NP		Α	Oxygen	
	P NP		В	Nitrogen	
	P NP		С	Nitrogen-Hydrogen F5	
	P NP		D	Argon-Hydrogen H35	
	P NP		E	Compressed air	
	P NP		F	Inspect compressed air treatment	
	P NF	•	Fa Fb Fc	State of air filter State of oil separator State of air dryer	
Gas flows -	cont.				
P	NP	11	Perfo	orm gas leak test	
	P NP		Α	*Oxygen pressure drop at psi in 10 minutes (_ bar)
	P NP		В	*Nitrogen pressure drop at psi in 10 minutes (bar)
P	NP	12	Visually inspect for hose restrictions		
	P NP		Α	gas supply to Gas console	
	P NP		В	Gas console to Off-valve	
	P NP		С	Off-valve (usualy located on the cutting table bridge) to torch body	
	P NP		D	Hoses in power track	
Gas consol	<u>e</u>				
! P	NP	13	Inspe	ect setting of Cutting Current - SET AMPS (according to proper operation data	a)
! P	NP	14	Inspe	ect selection of Plasma Gas (according to proper operation data)	
! P	NP	15	Inspe	ect selection of Shield Gas (according to proper operation data)	
! P	NP	16	Inspe	ect Settting of Plasma & Shield Gas PREFLOW (according to proper operation	data)
! P	NP	17	Inspe	ect Settting of Plasma & Shield Gas CUTFLOW (according to proper operation	ı data)
! P	NP	18	Perfo	orm coolant flow test (in case of HPR system - on the gas console)	
			۸	**Coolant flow checked at gallons nor minute /	nin\

! P NP	19	Verify setting of correct kind of material & correct thickness of material
! P NP	20	Verify setting of proper Arc Voltage (according to proper operation Data)
! P NP	21	Verify setting of proper Torch-to-Work Distance (according to proper operation Data)
! P NP	22	Verify setting of proper Cutting Speed (according to proper operation Data)
! P NP	23	Verify setting of proper Initial Pierce Height (according to proper operation Data)
! P NP	24	Verify setting of proper Pierce Delay Time (according to proper operation Data)
! P NP	25	Visually inspect proper function of THC unit (Torch Height Control) in process of cutting
Cutting table		
! P NP	26	Inspect a state & setting of the Initial Height Sensors or IHS wire connection
! P NP	27	Inspect alignment of the torch at right angles to the workpiece
! P NP	28	Inspect a state of the rails and drive system
P NP	29	Inspect proper function of the activating the zones of the down draft system (pneumatically controlled with movement of the cutting table bridge)
! P NP	30	Inspect a state of the ribs bearing material and pollution of the cutting table zones
Cooling system		
! P NP	31	Verify proper coolant level in the tank
! P NP	32	Visually inspect a state of Coolant (color, contamination, conductivity)
! P NP	33	Inspect filter element (if possible)
! P NP	34	Perform coolant flow test (in case of HPR system - on the Gas Console)
		A **Coolant flow checked at gallons per minute (l/min)
! P NP	35	Visually inspect a traces of corrosion on the surface of used Consumables & Torch Body (in case of liquid cooled torches)
Additional water supply - if used		
P NP	36	Inspect proper function of Water Injection system
P NP	37	Inspect proper function of Water Shroud system

CNC control unit of the cutting table

Power supply				
P NP	38	Visually inspect a state of the Power Source and verify cooling fans are working properly		
P NP	39	Visually inspect wiring harnesses		
System grounding				
P NP	40	Inspect for proper system component grounding connection		
P NP	41	Inspect and perform connection of cutting table to workpiece (+) lead (if needed)		
General comments and r	recommendations:			
Inspection performed by :				

Date: