

**NEW YORK POWER AUTHORITY**

<b>WELDING PROCEDURE SPECIFICATION</b>		<b>WELDING PROCEDURE NO.</b> <b>WPS</b> _____ <b>REVISION</b> _____ <b>PAGE 1 OF</b> _____	
<b>SCOPE:</b>  <b>SUPPORTING PQR(s)</b> _____			
<b>WELDING PROCESS(es)</b> <b>QW401</b>		<b>TYPE</b> _____ <b>TYPE</b> _____	
<b>JOINT DESIGN – QW402</b> Joint Design _____ Backing _____ Backing Matl. _____ Retainers _____ Root Spacing _____		<b>POSTWELD HEAT TREATMENT – QW407</b> Temp Range. _____ °F Time Range _____ Other _____	
<b>BASE METALS – QW403</b> P-No. _____ Gp. No. _____ to P-No. _____ Gp. No. _____ Thickness Range (Base Metal): _____ Groove _____ Fillet _____ Pipe Diameter Range: _____ Groove _____ Fillet _____ Maximum Pass Thickness _____ Other _____		<b>GAS - QW408</b> Shielding Gas(es) _____ Percent Comp. (Mixtures) _____ Shielding Gas Flow Rate _____ CFH Purge Gas _____ Flow Rate _____ CFH Trailing Shielding Gas & Composition _____ Other _____	
<b>FILLER METALS – QW404</b> F-No. 1. _____ 2. _____ A-No. 1. _____ 2. _____ SFA Spec. No. 1. _____ 2. _____ AWS Class No. 1. _____ 2. _____ Size of Filler Metal: 1. _____ 2. _____ Maximum Weld Deposit Thickness: Groove 1. _____ 2. _____ Fillet 1. _____ 2. _____ Consumable Insert _____ Other _____		<b>ELECTRICAL CHARACTERISTICS – QW409</b> Current & Polarity 1. _____ 2. _____ Amps Range 1. _____ 2. _____ Volts Range 1. _____ 2. _____ Tungsten Elect. Size _____ Type _____ Transfer Mode _____ Pulsing Current _____ Electrode Wire Feed Speed _____	
<b>POSITION – QW405</b> Welding Position(s): _____ Groove _____ Fillet _____ Welding Progression _____		<b>TECHNIQUE – QW410</b> String or Weave Bead: 1. _____ 2. _____ Orifice or Gas Cup Size _____ Initial & Interpass Cleaning _____ Method of Back Gouging _____ Oscillation _____ Contact Tube to Work Distance _____ Multiple or Single Pass (per side): 1. _____ 2. _____ Multiple or Single Electrodes _____ Travel Speed Range: 1. _____ IPM 2. _____ IPM Peening _____ Other _____	
<b>PREHEAT – QW406</b> Preheat Temp. Min. _____ °F Interpass Temp. Max. _____ °F Preheat Maintenance _____ Other _____			
<b>REMARKS:</b> (1) _____ (2) _____ (3) _____ (4) _____			
<b>PREPARED:</b> _____  <b>REVIEWED:</b> _____  <b>APPROVED:</b> _____		<b>CODE(s) QUALIFIED TO</b> _____ _____ <b>CODE USAGE</b> _____ _____	

WELDING PROCEDURE SPECIFICATION

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WELD LAYER(s)	WELDING PROCESS	FILLER METAL		GAS			ELECTRICAL DATA			TRAVEL SPEED (IPM)	MAX. BEAD WIDTH (in.)
		SIZE (in.)	AWS CLASS	TYPE	FLOW RATE (CFH)		TYPE/ POLAR.	AMPERAGE RANGE	VOLTS RANGE		
SHIELD	PURGE										

INSTRUCTIONS