WPS

FOR SINGLE PROCESS: SMAW OR GTAW	
$wps_number	WPS No.
$qualified_to	Qualified to
$revision_number	Revision no.
$date	Date
$supporting_pqr_Numbers	Supporting pqr no (s)
$reference_documents	Reference docs
$scope	Scope
$joint	Joint
$welding_process	Welding processes
$Type	Welding process type
$metal1_p_number	Metal1 p-number
$metal1_group_number	Metal1 group-number
$metal1_specification	Metal1 specification
$metal1_grade	Metal1 grade
$metal1_uns	Metal1 UNS
$welded_to_p_number	Welded to p-number
$welded_to_group_number	Welded to group no.
$welded_to_specification	Welded to specification
$welded_to_grade	Welded to grade
$welded_to_uns	Welded to UNS
$base_maximum_pass_thickness	Base metal maximum pass thickness<=1/2in.
$base_metal_other	Base metal other
$complet_penetration_minimum	Complete penetration min. thickness
$complet_penetration_maximum	Complete penetration max. thickness
$partial_penetration_minimum	Partial penetration min. thickness
$partial_penetration_maximum	Partial penetration max. thickness
$impact_tested_minimum	Impact tested min. thickness
$impact_tested_maximum	Impact tested max. thickness
$fillet_welds_minimum	Fillet welds min. thickness
$fillet_welds_maximum	Fillet welds max. thickness
$diameter_minimum	Diameter min
$diameter_maximum	Diameter max
$filler1_sfa	
$filler1_classification	
$filler1_f_number	
$filler1_a_number	
$filler1_chemical_analysis_or_trade_name	
$filler1_size	
$filler1_product_form_type	
$filler1_minimum	
$filler1_maximum	
$consumable_insert_SFA	
$consumable_insert_classification	
$consumable_insert_f_number	
$consumable_insert_a_number	
$consumable_insert_chemical	
$consumable_insert_size	
$consumable_insert_productform	
$flux_sfa	
$flux_classification	
$flux_f_number	
$flux_a_number	
$flux_chemical	
$flux_size	
$flux_productform	
$suppl_flux_sfa	
$suppl_flux_classification	
$suppl_flux_f_number	
$suppl_flux_a_number	
$suppl_flux_chemical	
$suppl_flux_size	
$suppl_flux_productform	
$suppl_flux_volume	
$position_of_groove	
$welding_progression	
$position_fillet	
$position_other	
$preheat_temp	
$interpass_temp	
$preheat_maintenance	
$preheat_other	
$pwht_temp_range	
$pwht_time_range	
$pwht_heating_rate	
$pwht_heating_type	
$pwht_cooling_rate	
$pwht_cooling_type	
$pwht_other	
$shieldgas_mixture	
$shieldgas_flow_rate	
$trailinggas_mixture	
$trailinggas_flow_rate	
$backinggas_mixture	
$backinggas_flow_rate	
$gas_other_mixture	
$gas_other_flow_rate	
$current_polarity	
$ampere_range	
$voltage_range	
$pulsing_current	
$tungsten_type	
$tungsten_size	
$transfer_mode	
$heat_input_max	
$wire_feed_speed	
$electrical_other	
$string_weave	
$orifice_gas_cup_size	
$initial_interpass_cleaning	

FOR GTAW+SMAW	
$type_gtaw	
$type_smaw	
$gtaw_filler1_sfa	
$gtaw_filler1_classification	
$gtaw_filler1_f_number	
$gtaw_filler1_a_number	
$gtaw_filler1_chemical_analysis_or_trade_name	
$gtaw_filler1_size	
$gtaw_filler1_product_form_type	
$gtaw_filler1_minimum	
$gtaw_filler_maximum	
$smaw_filler1_sfa	
$smaw_filler1_classification	
$smaw_filler1_f_number	
$smaw_filler1_a_number	
$smaw_filler1_chemical_analysis_or_trade_name	
$smaw_filler1_size	
$smaw_filler1_product_form_type	
$smaw_filler1_minimum	
$smaw_filler_maximum	
$consumable_insert_sfa	
$consumable_insert_classification	
$consumable_insert_f_number	
$consumable_insert_a_number	
$consumable_insert_chemical	
$consumable_insert_size	
$gconsumable_insert_productform	
$gtaw_position_of_groove	
$gtaw_welding_progression	
$gtaw_position_fillet	
$gtaw_position_other	
$smaw_position_of_groove	
$smaw_welding_progression	
$smaw_position_fillet	
$smaw_position_other	
$gtaw_preheat_temp	
$gtaw_interpass_temp	
$gtaw_preheat_maintenance	
$gtaw_preheat_other	
$smaw_preheat_temp	
$smaw_interpass_temp	
$smaw_preheat_maintenance	
$smaw_preheat_other	
$gtaw_current_polarity	
$gtaw_ampere_range	
$gtaw_voltage_range	
$gtaw_pulsing_current	
$gtaw_travel_speed	
$gtaw_wire_feed_type	
$gtaw_wire_feed_speed	
$gtaw_heat_input_max	
$gtaw_tungsten_type	
$gtaw_tungsten_size	
$gtaw_electrical_other	
$smaw_current_polarity	
$smaw_ampere_range	
$smaw_voltage_range	
$smaw_pulsing_current	
$smaw_travel_speed	
$smaw_heat_input_max	
$smaw_electrical_other	
$gtaw_string_weave	
$gtaw_orifice_gas_cup_size	
$gtaw_multi_single_pass	
$gtaw_multi_single_electrode	
$gtaw_oscillation	
$smaw_string_weave	
$smaw_orifice_gas_cup_size	
$smaw_multi_single_pass	
$smaw_multi_single_electrode	
print $smaw_oscillation	
$maximum_pass_thickness	

$technique_other

$methode_back_gouging	
$oscillation	
$multi_single_pass	
$multi_single_electrode	
$peening	
$surface_cleaning	
$joint_image1	
$joint_image2	
$joint_image3	
$joint_image4	
$joint_image5	
$joint_image6	
$joint_design_name	
$joint_backing	
$joint_root_spacing	
$backing_material	
$retainers	
$joint_other	
$note	
$weld_layers_array	
$welding_process_array	
$filler_metal_size_array	
$filler_metal_aws_class_array	
$gas_type_array	
$gas_flow_rate_array	
$polarity_array	
$amps_range_array	
$volts_range_array	
$travel_speed_array	
$max_bead_width_array	
$prepared_by_name	
$prepared_by_date	
$reviewed_by_name	
$reviewed_by_date	
$approved_by_name	
$approved_by_date	