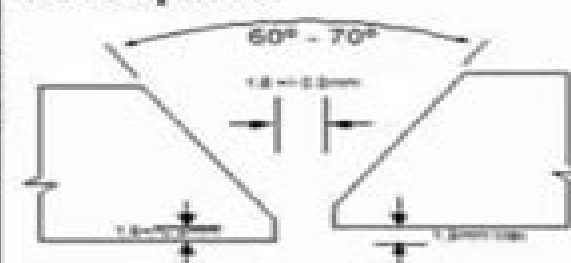


# Welding Procedure Specification

Client:	Mobil	Project:	221010Goatee	REF No.	WPS 6 R1	
Procedure Description:		12" Heavy Wall Offshore Tie-in			0290/1/WPS5	
Material:	AS3679.1 Grade 250 API 5L X65		Diameter:	168.3	Thickness:	18.3
Position:	6G		Clamp Type:	Internal		
Preheat °C (Min):	100		Interpass °C (Max):	300		
Welding Process		ROOT SMAW		HOT PASS SMAW		FILL & CAP SMAW
Welding Direction		Vertical Down		Vertical Down		Vertical Down
Filler		Lincoln SA70+		Lincoln SA70+		Böhler BVD90M
Polarity		DC +ve		DC +ve		DC +ve
Shielding Gas		N/A		N/A		N/A
Purge Gas		N/A		N/A		N/A

Pass No	Filler Size (mm)	Amps	Volts	Speed (mm/sec)	Heat Input (kJ/mm)
1	3.2mm	70-130	18-33	3.3-6.6	0.4-0.8
2	4.0mm	110-210	18-35	2.9-6.3	0.6-1.3
FILL	4.0mm	145-260	16-27	1.6-7.0	0.6-2.2
CAP	4.0mm	180-230	16-26	1.8-6.3	0.6-1.7

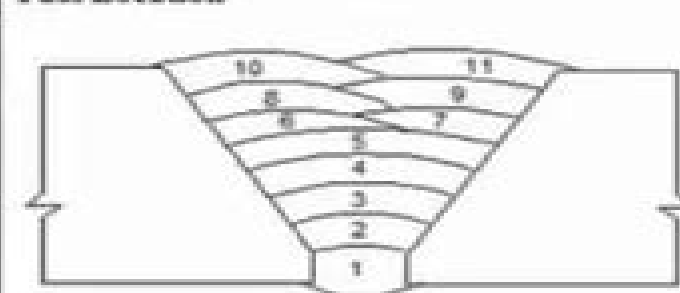
## Weld Preparation



## NOTES

- API Std 1104BP3094-SP-PL-3010R1
- Clamp removal stage: 100% completion of root (external clamp may be used in the event of a breakdown - removed after 50% minimum completion of the root.)
- Time lapse between root and second pass : 16 Minutes
- Time lapse between second pass and 1<sup>st</sup> fill : 12 Minutes
- Minimum number of passes before pipe movement : 2 passes
- Minimum number of passes before break in welding : 3 passes
- Minimum Number of welders- Root & second pass: 2 , Fill & Cap : 1
- Method of cleaning : Grinder / Wire brush
- Method of Preheat : Gas Torch
- Qualification reference number : 48250/PP/WP6 R1

## Pass Location



**Company Welding  
Engineer Approved**

**Approved for Client**

# Welding Procedure Specification Guide

**American Welding Society**

The logo of the American Welding Society, featuring a stylized red and white circular emblem with a red arc.

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pipe vibration stress intensification factors stress indices and flexibility factors code design and evaluation for cyclic loading and bolted flange joints and connections     Welding Handbook American Welding Society,2001     *Scientific and Technical Aerospace Reports* ,1987     **Welding Handbook: Welding processes** American Welding Society,1987     **Light Rail Transit Car Specification Guide** ,1981     Minnesota Rules ,2007     **Process Pipe and Tube Welding** W Lucas,1991-05-31 The welding of tubes is an essential requirement in the fabrication of components in many industries The original idea for this book came from a seminar organized by The Welding Institute which attracted over 100 specialists concerned with design fabrication production and quality assurance and yielded a number of valuable papers Process Pipe and Tube Welding contains some of these papers together with additional chapters to provide comprehensive coverage of all aspects of tube welding from initial design considerations through production to final inspection In the first three chapters the authors outline the process and equipment options available for both manual and mechanized welding This is essential for design and production planning when faced with the choice of competing processes such as MMA MIG TIG or plasma helping engineers make the right choice for particular applications and ensuring the most cost effective welding techniques are employed Five further chapters are devoted to the application of tube welding in the aero engine ship building power generation petrochemical and chemical plant industries with numerous details on processes materials techniques and equipment The welding parameters and production data provided by the authors are a valuable source of information and will help engineers to overcome problems in production This title includes Process options and manual techniques for welding pipework fabrications Mechanised arc welding process options for pipework fabrications Process techniques and equipment for mechanised TIG welding of tubes Welding pipes for aero engines TIG welding pipework for ships Automatic tube welding in boiler fabrication TIG and MIG welding developments for fabrication of plant for the chemical petrochemical and offshore oil and gas industries Fabrication of aluminium process pipework A fabrication system for site mechanical construction Qualification of welding procedures for the chemical process industry Non destructive examination of welds in small diameter pipes     Bridge Guide and Manual American Association of State Highway and Transportation Officials,1989     Nuclear Science Abstracts ,1966     *Materials Quality Assurance Procedures Manual* Michigan. Department of Transportation. Construction and Technology Division,2002     **Guidelines for Welding Procedure Specifications** Structural Engineers Association of Northern California. Construction Quality Assurance Committee,1997     **Recommended Aluminum Pipe Welding Procedures for Corps of Engineers Construction** Robert Weber,1984     **Catalog of American National Standards** American National Standards Institute,1995     Design Guide for Hollow Structural Section Connections J. A. Packer,J. E. Henderson,Canadian Institute of Steel Construction,1992

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