WELD PROCEDURE SPECIFICATION - INTERIM CHANG	GE NOTICE
LATEST ICN No. 1 to WPS 11032 Rev.	11
The following Interim Change Notice is being submitted as to expedite the revision of a non-essential variable in a Weld Procedure Specification.	
ICN No. 1 Changes/Additions:	4/13/84
On page 2 of 2 add the following to Note 1 under the ANSI B31.1 thickness range:	Blums 1
.0625" thru 1.50" - Structural welds (Does not include pressure parts or attachments to pressure parts).	WE TO SO POAM
	PM and/or P
ICN No Changes/Additions:	Date
	Date
	PWE
	PQAM
	PDM and/or P
ICN No Changes/Additions:	Date
	FWE
	PQAM
	PDM and/or P :
ICN No Changes/Additions:	Date
	PWE
	PQAM
234 860527	PDM and/or P :
-59 PDR	

Brown & Root, Inc. HOUSTON, TEXAS

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WPS - 11032 PAGE 1 OF 2

ICN# 1

ASME B & PV SECTION IX

WELDING CODE

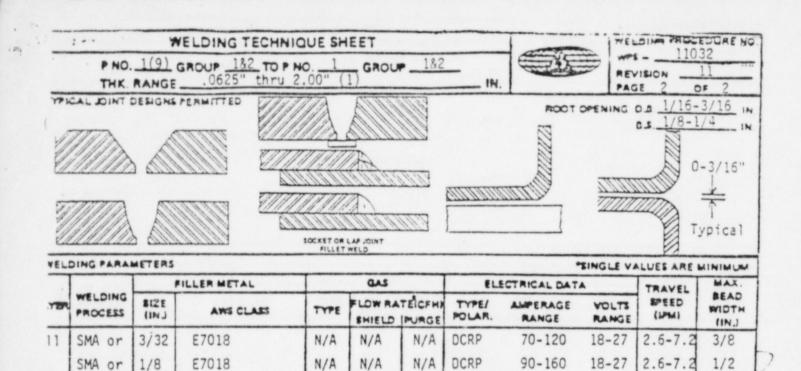
WELDING PROCEDURE SPECIFICATION

SUPPORTING POR(S) *0101AB138 Rev.4 *0101AB212 Rev.3 *0112BB101 Rev.4

TYPE Manual CP0112BB301 Rev.0 TYPE N/A POSTWELD HEAT TREATMENT (QW-407) Type N/A Temperature N/A Time Range N/A
POSTWELD HEAT TREATMENT (QW-407) Type N/A Temperature N/A Time Range N/A
Type N/A Temperature N/A Time Range N/A
GAS (QW—408) Shielding Gas 1. N/A Percent Comp. N/A Shielding Gas Flow Rate N/A Shielding Gas Flow Rate N/A Purge Gas N/A Trailing Shielding Gas Composition N/A Flow Rate N/A CFH (min.)
ELECTRICAL CHARACTERISTICS (OW—409) Current 1. DCRP 2 N/A Amps Range 1. 70 - 195 2 N/A Volts Range 1. 18 - 27 2 N/A Tungsten Elec. Size/Type N/A
TECHNIQUE (QW—410) Stringer or Weave Bead 1. Stringer 2. N/A Bead Width: See Page 2 Orifice or Gas Cup Size. N/A
Initial and Interpass cleaning: Welding surfaces shall be wire brushed or ground as required to remove slag, scale or other contaminants. Method of back gouging Air carbon are and/or quinder
Oscillation 1. N/A 2 N/A IN. Contact Tube to work distance N/A IN. Multiple or Single Layer 1. Multiple (Per Side) 2. N/A Multiple or single electrodes Single Travel Speed (Range) 1. 2.6 - 7.2 2. N/A IPM
Travel Speed (Range) 1. 2.5 - 7.2 2 N/A IPM Peening: Not Allowed Test Results
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FOR OFFICE AND ENGINEERING USE ONLY

PREPARATION APPROVAL	DATE	and the same of th		
Jemmy Hite		Fab. Codes:	ASME Section III, ANSE B31.1	
Welding Engineering			coccc	
The state of the s	9-28-83	Project:	Ch2F2	
Project Welding Engineer	9/29/83	In No	CR-0172	
Quattry Assurance		200 140.		



	60 (2)		PEENING Not Allowed	
MEHEAT TEMP.	60-500 (2) (3) (BACK GOUGING METHOD_AL	
REHEAT MAINT.	N/A		ORIFICE OR CUP SIZE	N/A
TUNGSTEN ELECT. SI	ZE A TYPE N/A	IN.	WELDING PROGRESSION	Upward

Maximum thickness of any single deposited layer shall not exceed 1/2".

N/A

N/A

NATRUCTIONS

SMA or

1. Qualified thickness range:

5/32

E7018

ASME III - .0625" thru 1.50" - Full penetration buttwelds.

.0625" thru 2.00" - Partial penetration with depth of preparation 3/4" or less All thickness - Fillet welds with maximum throat of 3/4".

DCRP

N/A

110-195

18-27

2.6-7.2

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IN

ANSI B31.1-.0625" thru .750" - Full penetration buttwelds.

.0625" thru 2.00" - Partial penetration attachments with depth of preparation 1/2" or less.

All thickness - Fillet welds with throat thickness 1/2" or less.

2. Preheat Temperatures:

200°F min. - Pl material over 1.250" thickness.

150°F min. - A588 material.

250°F min. - 588 material over 1 1/2" thickness.

175°F min. - For B31.1 when attaching non-pressure parts to pressure parts over 3/4" in thickness.

3. Preheat and interpass temperature (above 150°F) shall be checked using temperature indicating crayons or an approved equal.

4. Tack welds shall employ the parameters for the root pass.

- 5. Tack welds shall be complete fusion; the starts and stops shall be tapered by grinding so that the initial pass can properly consume the tack.
- 5. Full penetration welds not utilizing a backing strip shall be back gouged and/or ground to sound metal before welding the second side using the welding parameters shown.
- Variation in joint geometrics shown above is permitted provided the specified root opening is maintained.
- 3. Maximum interpass temperature for concrete embeded base plates shall be 250°F when under 3/4" thickness and 350°F for thickness 3/4" and over.
- 3. A588 Gr. A or B or A570 Gr. D or A120 to P1 also qualified. A570 Gr. D and A120 to be welded using only fillet welds.

Brown & Root, Inc. Post Office Box 1001, Glen Rose, Texas 76043



BRF #11281

September 27, 1983

ICNT

Mr. J.T. Merritt, Jr. Texas Utilities Services, Inc. P.O. Box 1002 Glen Rose, Texas 76043

> Texas Utilities Services, Inc. Comanche Peak Steam Electric Station Approval of Welding Procedure Specification

Dear Mr. Merritt:

P#1.156 112

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90.4

Attached is a copy of Welding Procedure Specification WPS 11032, Rev.11 for review and approval by Texas Utilities Services, Inc.

This Welding Procedure Specification is to be used in conjunction with the following Brown & Root Specifications:

CP-CPM 6.9 WES-031

Please review/approve subject procedure at your earliest convenience.

Very truly yours,

BROWN & ROOT, INC.

D.C. Frankum
Project Manager

DCF/WEB/JEH/tln Attachment cc: J.T. Merritt ARMS (0) M. Smith

APPROVED:

JA. Merritt, Jr. Date Engr. & Const. Mgr.

FOIA-85-59

8-110

Brown & Rooting.

INTEROFFICE MEMO

IM - 26235

September 27, 1983

TO:

G.R. Purdy

FROM:

W.E. Baker

SUBJECT: Approval of Welding Procedure

Attached is a copy of Welding Procedure Specification WPS 11032 Rev. 11 for your review and approval.

This Welding Procedure Specification is to be used in conjunction with the following Brown & Root Specifications:

CP-CPM 6.9 WES-031

Please review/approve subject procedure at your earliest convenience.

Sr. Project Weiding Engineer

APPROVED:

WEB/JEH/tln

cc: File Project QA Manager

Brown & Root Inc. HOUSTON, TEXAS



WPS NO.

11032

Page 1 of 2 WELDING PROCEDURE SPECIFICATION CHANGE NOTICE

CURRENT REVISIONS ARE INDICATED BY CHANGE BARS.

	REV. 1 2 3 4 5 6 7 8 9 10	6- 8-77 8-26-77 9-27-78 12-12-78 3-30-79 8-22-79 3-20-80 2-23-82 5-19-82 2-23-83	ORIGINATOR E. J. Hotko E. J. Hotko J. F. Bronicki J. F. Bronicki J. F. Bronicki G. Wainwright W.E. Baker W.E. Baker Jimmy Hite	Plulita Plulit
REVISION NO.		DESCRIBE THE	CHANGE	
1			2 to increase minimadditional joint de	
2	Deleted	PQR 0101BB113 an	d revised minimum t	hickness qualified.
3	and 010: Revised	lAB140 to allow i	d added PQRs 0101AB mpact welding on Grents. Increased vo	oup 2 materials.
4		reference to tra Revised voltage	vel speed and doubl range.	e bevel joint
5	fillet v classif: trailing initial oscillar deleted	weld thickness an ication, preheat g shielding gas, and interpass claim and root sparents of the page	ded the following in d diameter, electron maintenance, joint tungsten size and t eaning, back gougin cing. Noted PQR re and 0101AB140 and add e and voltage range	description, type, bead type, ag method, evision and ded PQR 0101AB212,
6	root spe	acing, notes 7, 8	ded prehest mainten and9 and layer th vised fillet range	ickness limitation.
* REVISIONS MUST BE APPR	document m at the date	meets all requirements of qualification ted below are his	leved for typograph of the code of the cod	y. The f record echnical bar(a).

Brown & Rooting. HOUSTON, TEXAS



WPS/POR NO.

11032

Page 2 of 2

WPS/POR. REVISION NO.

DESCRIBE THE CHANGE

- 8. Add travel speed. Add partial penetration Flare bevel configuration. Delete preheat maintainence requirement. Reduced thickness qualified for ASME Section III. Add embeded plate interpass restrictions.
- 9. Add PQR 0112BB101 to allow use of additional base metals.
- 10. Added PQR 0112BB112 to allow use of ASTM A570 Gr. D material. Lowered thickness range. Incorporated ICN's. Revised notes to clarify thickness range and preheat temperature. Add note 9.
- Added POR CP-0112BB301 Rev.O to allow use of ASTM A120 material. 11. Added notation that A570 Gr. D. and A120 to be welded using only fillet welds.