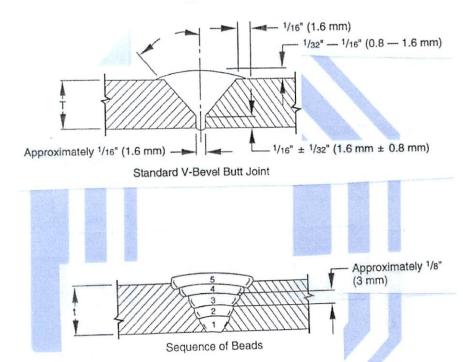
CONSTRUCTION: JOINING OF PIPES BY WELDING

| | Issued: _ | 3-3-08 | Revised: | Numbe | r:7B | Page: _ | |
|--|--|--|---|--|--|---|--|
| CT. | | WEI D | INC PROCE | DUDE CDECT | =TCATT | ON # | 7B |
| 517 | ANDAKL | WELD. | ING PROCE | DURE SPECI | -ICAII | JN # | / B |
| B. C. D. E. F. G. H. I. J. K. L. M. O. | Material: Diameter Joint Des Filler Met Electrode Electrical Position: Direction Number of Time Lap 3 minutes Type of L Removal Cleaning: power bu Speed of *Preheat, be done v applicatio Notes: W of stringe cooled to | API-5L and Wall ign: Star al and Nume E6010 or Flame Inclined of Welders se Between Se maximuline-Up Clarof Line-Up Taper grang ff all remarks. Stress Rewith device on 2" back Velded piper beads. ambient to | mber of Beads: And E8010 A' Characteristics 45 degrees g: Vertical Do :: 1 en Passes: Max m when temper amp: External o Clamp: After rind starts and aining passes. Etring bead 10 elief: Maximum e or equipment from pipe end e strings shall be of temperature. Ver | 8/8 THRU 6 5/8 and ove 30 degree Electrode Classif WS Class A5.1- : D.C. Reverse own simum of 5 minuterature is below 3! 50% completion craters and flatter of 300°F. Minimum of 300°F. | fication -A5.5 Polarity, es betwe 5° F. on of string on crown I ninute manum of 1 entire circulated from | Minimu Electrodo en stringe onger bead by grinding ximum. 50°F. Pre- cumference prevent air moisture | am of 3 Passes e Positive r and hot pass; g stringer bead, heating shall e(s) in single r draft cooling until it has |
| | | | | the carbon conte be is limited to 60 | | ds 32% or | C+1/4 Mn |
| | | | Number: | 7B Page: | | | |
| /EST T | TEXAS GAS, | INC. | | | | | 1 |

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Note: Dimensions are for example only.

Revised 2/14/08

| Bead No. | Electrode Diameter | Amperage Range | Voltage Range | Type Rod | Notes |
|-------------|-----------------------|-------------------|------------------|-----------|-------|
| 1 | 1/8 | 95-110 | 22-30 | E6010 5P+ | |
| 2 | 1/8 | 105-115 | 24-40 | E8010 70+ | |
| 3 | 1/8 | 105-120 | 25-40 | E8010 70+ | |
| 4 | 1/8 | 105-135 | 25-35 | E8010 70+ | |
| 5 | | | | | |

| No. | Electrodes | may be | substituted | within Ro | od group | AWS A5.1-A5. |
|-------------|------------|--------|-------------|-----------|----------|--------------|
| | 2,000,000 | | | | | |
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