



# Ultrasonic Thickness Test

## Vessel Lines

|  |                |      |          |       |      |          |                  |       |       |
|--|----------------|------|----------|-------|------|----------|------------------|-------|-------|
| Date                                       | 5-27-2015      |      |          |       |      | Customer | FMC Technologies |       |       |
| Unit #                                     | LH-00032       |      |          |       |      | Job #    | 12600            |       |       |
| Description of Work: UT- Line Heater Coils |                |      |          |       |      |          |                  |       |       |
|  | Description    | Dia. | Schedule | Nom.  | Min. |          |                  |       |       |
| P 1  | Straight joint | 3.00 | XXH      | 1.000 | .600 | Ref.     | Ref.             | Ref.  | Ref.  |
|  |                |      |          |       |      | .986     | 1.002            | 1.012 | 1.001 |
| P 2  | Straight joint | 3.00 | XXH      | 1.000 | .600 | Ref.     | Ref.             | Ref.  | Ref.  |
|  |                |      |          |       |      | 1.035    | .989             | 1.014 | 1.015 |
| P 3  | Straight joint | 3.00 | XXH      | 1.000 | .600 | Ref.     | Ref.             | Ref.  | Ref.  |
|  |                |      |          |       |      | 1.018    | .994             | 1.011 | .985  |
| P 4  | Straight joint | 3.00 | XXH      | 1.000 | .600 | Ref.     | Ref.             | Ref.  | Ref.  |
|  |                |      |          |       |      | 1.011    | 1.020            | 1.005 | .993  |
| P 5  | Straight joint | 3.00 | XXH      | 1.000 | .600 | Ref.     | Ref.             | Ref.  | Ref.  |
|  |                |      |          |       |      | .989     | 1.010            | 1.007 | 1.018 |
| P 6  | Straight joint | 3.00 | XXH      | 1.000 | .600 | Ref.     | Ref.             | Ref.  | Ref.  |
|  |                |      |          |       |      | .998     | .997             | .992  | .999  |
| P 7  | Straight joint | 3.00 | XXH      | 1.000 | .600 | Ref.     | Ref.             | Ref.  | Ref.  |
|  |                |      |          |       |      | 1.013    | 1.003            | .991  | 1.005 |
| P 8  | Straight joint | 3.00 | XXH      | 1.000 | .600 | Ref.     | Ref.             | Ref.  | Ref.  |
|  |                |      |          |       |      | 1.007    | 1.000            | 1.013 | 1.011 |
| P 9  | Box 90         | 3.00 | XXH      | 1.000 | .600 | Ref.     | Ref.             | Ref.  | Ref.  |
|  |                |      |          |       |      | 1.782    | 1.666            | 1.790 | .     |
| P 10                                       | Box 90         | 3.00 | XXH      | 1.000 | .600 | Ref.     | Ref.             | Ref.  | Ref.  |
|  |                |      |          |       |      | 1.753    | 1.710            | 2.553 | 1.848 |
| P 11                                       | Box 90         | 3.00 | XXH      | 1.000 | .600 | Ref.     | Ref.             | Ref.  | Ref.  |
|  |                |      |          |       |      | 1.828    | 2.512            | 1.627 | 1.827 |
| P 12                                       | Box 90         | 3.00 | XXH      | 1.000 | .600 | Ref.     | Ref.             | Ref.  | Ref.  |
|  |                |      |          |       |      | 1.852    | 2.549            | 1.826 | 1.678 |
| P 13                                       | Box 90         | 3.00 | XXH      | 1.000 | .600 | Ref.     | Ref.             | Ref.  | Ref.  |
|  |                |      |          |       |      | 1.797    | 2.502            | 1.782 | 1.664 |
| P 14                                       | Box 90         | 3.00 | XXH      | 1.000 | .600 | Ref.     | Ref.             | Ref.  | Ref.  |
|  |                |      |          |       |      | 1.818    | 2.553            | 1.802 | 1.655 |
| P 15                                       | Box 90         | 3.00 | XXH      | 1.000 | .600 | Ref.     | Ref.             | Ref.  | Ref.  |
|  |                |      |          |       |      | 1.799    | 2.532            | 1.771 | 1.659 |
| P 16                                       | Box 90         | 3.00 | XXH      | 1.000 | .600 | Ref.     | Ref.             | Ref.  | Ref.  |
|  |                |      |          |       |      | 1.765    | 2.543            | 1.649 | 1.792 |
| P 17                                       | Box 90         | 3.00 | XXH      | 1.000 | .600 | Ref.     | Ref.             | Ref.  | Ref.  |
|  |                |      |          |       |      | 1.772    | 2.542            | 1.591 | 1.812 |
| P 18                                       | Box 90         | 3.00 | XXH      | 1.000 | .600 | Ref.     | Ref.             | Ref.  | Ref.  |
|  |                |      |          |       |      | 1.779    | 1.645            | 1.794 | .     |
| P 19                                       | Box 90         | 3.00 | XXH      | 1.000 | .600 | Ref.     | Ref.             | Ref.  | Ref.  |
|  |                |      |          |       |      | 1.780    | 2.539            | 1.679 | 1.833 |
| P 20                                       | Box 90         | 3.00 | XXH      | 1.000 | .600 | Ref.     | Ref.             | Ref.  | Ref.  |
|  |                |      |          |       |      | 1.828    | 2.547            | 1.664 | .     |
| P 21                                       | Box 90         | 3.00 | XXH      | 1.000 | .600 | Ref.     | Ref.             | Ref.  | Ref.  |
|  |                |      |          |       |      | 1.826    | 2.535            | 1.665 | 1.779 |
| P 22                                       | Box 90         | 3.00 | XXH      | 1.000 | .600 | Ref.     | Ref.             | Ref.  | Ref.  |
|  |                |      |          |       |      | 1.810    | 2.485            | 1.670 | 1.785 |
| P 23                                       | Straight joint | 3.00 | XXH      | 1.000 | .600 | Ref.     | Ref.             | Ref.  | Ref.  |
|  |                |      |          |       |      | 1.065    | 1.000            | .988  | .995  |
| P 24                                       | Straight joint | 3.00 | XXH      | 1.000 | .600 | Ref.     | Ref.             | Ref.  | Ref.  |
|  |                |      |          |       |      | 1.033.   | .998             | 1.010 | 1.008 |
| P 25                                       | Straight joint | 3.00 | XXH      | 1.000 | .600 | Ref.     | Ref.             | Ref.  | Ref.  |
|  |                |      |          |       |      | .996     | 1.019            | 1.036 | 1.023 |

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