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|--|--|--|----------------------------|--|
| <br><b>Transporte S.A.</b>  | <b>HOJA DE DATOS</b>   |  | <b>Nº SC-E01-IC-HD-007</b> |  |
|  | CLIENTE: Y.P.F.B. TRANSPORTE S.A.  |  | HOJA: 1 de 3               |  |
|  | PROYECTO: "INGENIERIA BASICA Y DETALLE MEJORAS SISTEMA DE MEDICION CONTROL -<br>TERMINAL SANTA CRUZ" |  |                            |  |
|  | ÁREA: TERMINAL SANTA CRUZ  |  |                            |  |
| <br><b>D.E.C.S. S.R.L.</b><br>Downstream Engineering<br>& Construction Services | TÍTULO: TRANSMISORES DE PRESION  |  |                            |  |
|  | ARCHIVO: SC-E01-IC-HD-007 .xls   |  |                            |  |

## ÍNDICE DE REVISIONES

| REV. | DESCRIPCIÓN Y/U HOJAS AFECTADAS |
|------|---------------------------------|
| 0    | APROBADO PARA CONSTRUCCION      |

|              |            |  |  |  |  |  |  |  |  |
|--------------|------------|--|--|--|--|--|--|--|--|
|              | REV. 0     |  |  |  |  |  |  |  |  |
| FECHA        | 17/02/2016 |  |  |  |  |  |  |  |  |
| EJECUCIÓN    | R. ZURITA  |  |  |  |  |  |  |  |  |
| VERIFICACIÓN | G. CABRERA |  |  |  |  |  |  |  |  |
| REVISIÓN     | E. HUICI   |  |  |  |  |  |  |  |  |
| APROBACIÓN   | J. PINO    |  |  |  |  |  |  |  |  |

|   |  |                   |  |  |  |
|---|--|-------------------|--|--|--|
|    | <b>HOJA DE DATOS</b>   |                   | DOCUMENTO N° <b>SC-E01-IC-HD-007</b>   |  |  |
|   | CLIENTE: <b>Y.P.F.B. TRANSPORTE S.A.</b>   |                   | HOJA: <b>2</b> de <b>3</b>   |  |  |
|   | PROYECTO: <b>"INGENIERIA BASICA Y DETALLE MEJORAS SISTEMA DE MEDICION CONTROL - TERMINAL SANTA CRUZ"</b> |                   |  |  |  |
|    | AREA: <b>TERMINAL SANTA CRUZ</b>   |                   |  |  |  |
|   | TITULO: <b>TRANSMISORES DE PRESION</b>   |                   |  |  |  |
|   |  |                   |  |  |  |
| <b>GENERAL</b>  | 1  | Tag Number        | See Table 1  |  |  |
|   | 2  | Service           | See Table 1  |  |  |
|   | 3  | Line Number       | See Table 1  |  |  |
| <b>METER</b>  | 4  | Function          | Record <input type="checkbox"/> Indicate <input checked="" type="checkbox"/> Control <input type="checkbox"/> Blind <input type="checkbox"/> Transmitter <input checked="" type="checkbox"/> |  |  |
|   | 5  | Case              | Mfr. Std. <input checked="" type="checkbox"/> Nom. Size Color: Mfr. Std <input checked="" type="checkbox"/> Other  |  |  |
|   | 6  | Mounting          | Flush <input type="checkbox"/> Surface <input type="checkbox"/> Yoke <input type="checkbox"/> Other: <b>2" Pipe</b>  |  |  |
|   | 7  | Enclosure Class   | Gral. Purpose <input type="checkbox"/> Wheather Proof <input checked="" type="checkbox"/> Explosion Proof <input checked="" type="checkbox"/> Class I Div. I Gr. C&D                         |  |  |
|   | 8  |                   | For Use In Instrin. Safe System <input type="checkbox"/> Other:  |  |  |
|   | 9  | Power Supply      | 117V 60 Hz <input type="checkbox"/> 24 VDC <input checked="" type="checkbox"/>   |  |  |
| <b>XMTR</b>   | 10   | Transmitter       | 4-20 mA <input checked="" type="checkbox"/> 10-50 mA <input type="checkbox"/> 21-103 Kpa (3-15 Psig) <input type="checkbox"/> Other: Plus HART <input checked="" type="checkbox"/>           |  |  |
|   | 11   | Failure Alarm     | NAMUR NE 43  |  |  |
|   | 12   | Engineering Units | PSI  |  |  |
|   | 13   | Accuracy          | ±0.05% of calibrated span.   |  |  |
|   | 14   | Stability         | ±0.2% of URL for 10 years.   |  |  |
| <b>ELEMENT</b>  | 15   | Service           | Gage Press <input checked="" type="checkbox"/> Vacuum <input type="checkbox"/> Absolute <input type="checkbox"/> Differential <input type="checkbox"/>                                       |  |  |
|   | 16   | Element Type      | Diaphragm <input checked="" type="checkbox"/> Helix <input type="checkbox"/> Bourdon <input type="checkbox"/> Bellows <input type="checkbox"/>   |  |  |
|   | 17   | Material          | 316 SS <input checked="" type="checkbox"/> Ver. Cooper <input type="checkbox"/> Other  |  |  |
|   | 18   | Range             | Fixed <input type="checkbox"/> Adj. Range <input checked="" type="checkbox"/> Set at Ver Tabla   |  |  |
|   | 19   | Process Data      | Press: Normal Max 740 psig Element Range   |  |  |
|   | 20   | Process Conn.     | 1/4" NPT <input type="checkbox"/> 1/2" NPT <input checked="" type="checkbox"/> Other   |  |  |
|   | 21   |                   | Location: Bottom <input checked="" type="checkbox"/> Back <input type="checkbox"/> Other _____   |  |  |
| <b>MANUFACTURER</b>   | 22   | Mfr & Model No.   | Ver vendor   |  |  |
|   |  |                   |  |  |  |
| <b>Notes:</b> <ol style="list-style-type: none"> <li>1. Transmitter should be configured for HART Revision 5</li> <li>2. Transmitter should compliant with NAMUR Recommendation NE 43</li> <li>3. Vendor should include 2" vertical pipe mounting bracket (Stainles Steel)</li> <li>4. Vendor should include Calibration Certificate</li> </ol> |  |                   |  |  |  |
|  <p style="text-align: center;"><b>Transmisor de presión<br/>3051T In-Line</b></p>   |  |                   |  |  |  |

|   |  |  |                                      |                            |
|---|--|--|--------------------------------------|----------------------------|
| <br><b>YPFB</b><br><b>Transporte S.A.</b>  | <b>HOJA DE DATOS</b>                   |  | DOCUMENTO N° <b>SC-E01-IC-HD-007</b> |                            |
|   | CLIENTE:                               | <b>Y.P.F.B. TRANSPORTE S.A.</b>  |                                      | HOJA: <b>3</b> de <b>3</b> |
|   | PROYECTO:                              | <b>"INGENIERIA BASICA Y DETALLE MEJORAS SISTEMA DE MEDICION CONTROL - TERMINAL SANTA CRUZ"</b> |                                      |                            |
| <br><b>D.E.C.S.</b><br><b>Downstream Engineering &amp; Construction Services</b> | AREA: <b>TERMINAL SANTA CRUZ</b>       |  |                                      |                            |
|   | TITULO: <b>TRANSMISORES DE PRESION</b> |  |                                      |                            |

**TABLE 1**

| REV | TAG NO.  | ADJ. RANGE  | CALIB. RANGE  | SERVICE                | NOTES  |
|-----|----------|-------------|---------------|------------------------|--|
| 1   | PIT-1001 | 0-1000 psig | 740-1440 psig | 4"-0.237-B-(H-1)-102   | PRESION DE ENTRADA CONDENSADO ORSZ           |
| 1   | PIT-1002 | 0-1000 psig | 100-280 psig  | 6"-0.280-B-(H-1)-106   | PRESION DE ENTRADA GLP ORSZ                  |
| 1   | PIT-1003 | 0-1000 psig | 740-1440 psig | 6"-0.280-B-(H-1)-106   | PRESION DE ENTRADA GLP PRGS                  |
| 1   | PIT-1110 | 0-1000 psig | 100-280 psig  | 6"-0.280"-B(HC-3)-1507 | PUENTE DE MEDICION DUCTO OCSZ-II             |
| 1   | PIT-1100 | 0-1000 psig | 100-280 psig  | 8"-0.322-B-(H-3)-104   | PRESION DE ENTRADA PUENTE MEDICION OCSZ-II   |
| 1   | PIT-1130 | 0-1000 psig | 100-20 psig   | 6"-0.280"-B(HC-3)-1509 | PRESION DE SALIDA PUENTE MEDICION OCSZ-II    |
| 1   | PIT-1210 | 0-1000 psig | 30-150 psig   | 4"-0.237-B-(H-3)-1510  | PRESION PUENTE DE MEDICION ORSZ              |
| 1   | PIT-1231 | 0-1000 psig | 30-150 psig   | 4"-0.237-B-(H-3)-1512  | PRESION DE SALIDA PUENTE DE MEDICION ORSZ    |
| 1   | PIT-1301 | 0-1000 psig | 160-280 psig  | 4"-0.237-B-(H-3)-103   | PRESION DE ENTRADA PUENTE MEDICION ORSZ      |
| 1   | PIT-1310 | 0-1000 psig | 160-280 psig  | 4"-0.237-B-(H-3)-1019  | PUENTE DE MEDICION PRGS YPRSZ(RAMAL A)       |
| 1   | PIT-1320 | 0-1000 psig | 160-280 psig  | 4"-0.237-B-(H-3)-1018  | PUENTE DE MEDICION PRGS YPRSZ(RAMAL B)       |
| 1   | PIT-1330 | 0-1000 psig | 160-280 psig  | 6"-0.280-B-(H-1)-110   | PRESION SALIDA PUENTE MEDICION PRGS YPRSZ    |
| 1   | PIT-1510 | 0-1000 psig | 80-150 psig   | 6"-0.280"-B-(H-3)-1508 | PRESION PUENTE DE MEDICION CRUDO A RGE B     |
| 1   | PIT-1531 | 0-1000 psig | 80-150 psig   | 6"-0.280"-B-(H-3)-1508 | PRESION SALIDA PUENTE MEDICION CRUDO A RGE B |
| 1   | PIT-1610 | 0-1000 psig | 80-150 psig   | 6"-0.280-B-(H-3)-1502  | PRESION PUENTE DE MEDICION CRUDO A RON       |
| 1   | PIT-1631 | 0-1000 psig | 80-150 psig   | 6"-0.280-B-(H-3)-1514  | PRESION SALIDA PUENTE MEDICION CRUDO A RON   |
| 1   | PIT-1730 | 0-1000 psig | 80-150 psig   | 6"-0.280-B-(H-3)-203   | PRESION SALIDA PUENTE CRUDO B A REFINERIA    |
| 1   | PIT-1710 | 0-1000 psig | 80-150 psig   | 6"-0.280-B-(H-3)-201   | PUENTE DE MEDICION CRUDO B A REFINERIA       |
| 1   | PIT-1700 | 0-1000 psig | 1500-200 psig | 6"-0.280"-B(HC-3)-1707 | PUENTE DE MEDICION GLP, GN, ISOMERADO        |
| 1   | PIT-1720 | 0-1000 psig | 150-200 psig  | 6"-0.280"-B(HC-3)-1709 | PRESION SALIDA PUENTE GLP, GN, ISOMERADO     |
| 1   | PIT-1800 | 0-1000 psig | 140-250 psig  | 8"-0.322-B-(H-1)-112   | PUENTE DE MEDICION PRGS DE TERMINAL TR       |
| 1   | PT-1800  | 0-1000 psig | 100-200 psig  | 4"-0.237"-B(HC-3)-1721 |  |
| 1   | PIT-1900 | 0-1000 psig | 140-250 psig  | 4"-0.237"-B(HC-3)-1718 | PUENTE DE MEDICION RECEPCION GLP             |
| 1   | PIT-2110 | 0-1000 psig | 80-150 psig   | 6"-0.280-B-(H-3)-1213  | PRESION PUENTE DE MEDICION OSSA-I            |